

FIG. 2

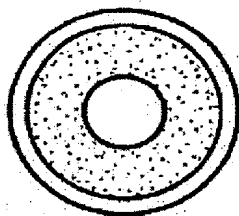


FIG. 3

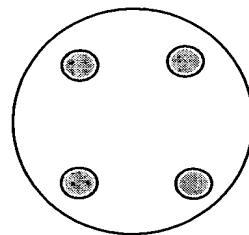


FIG. 4

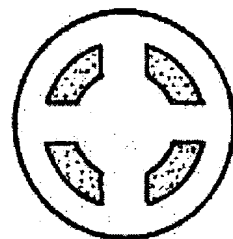


FIG. 5

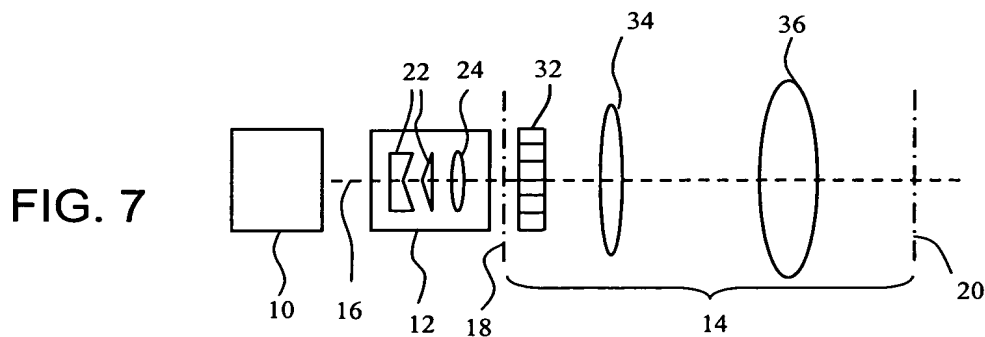
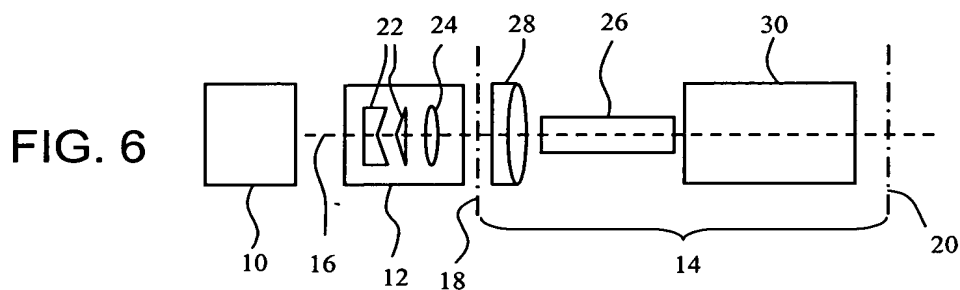


FIG. 8

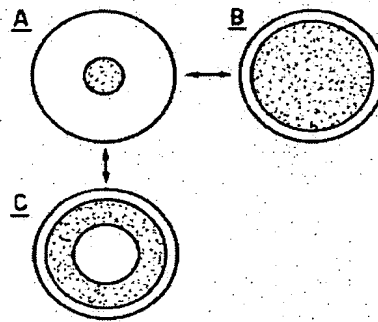
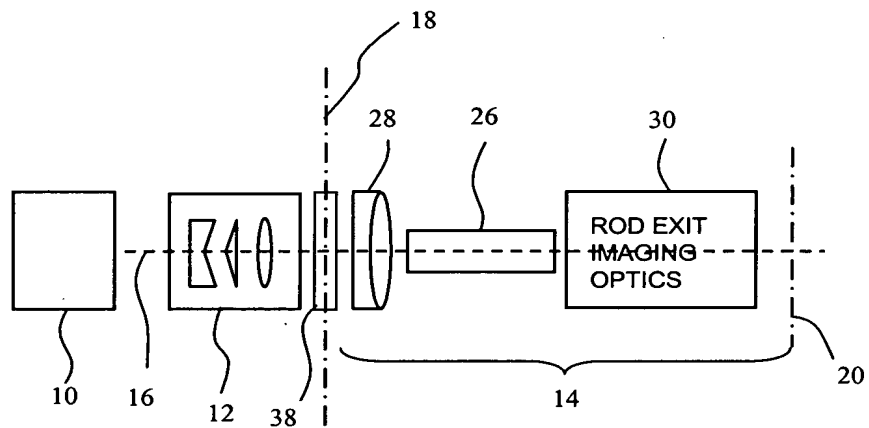
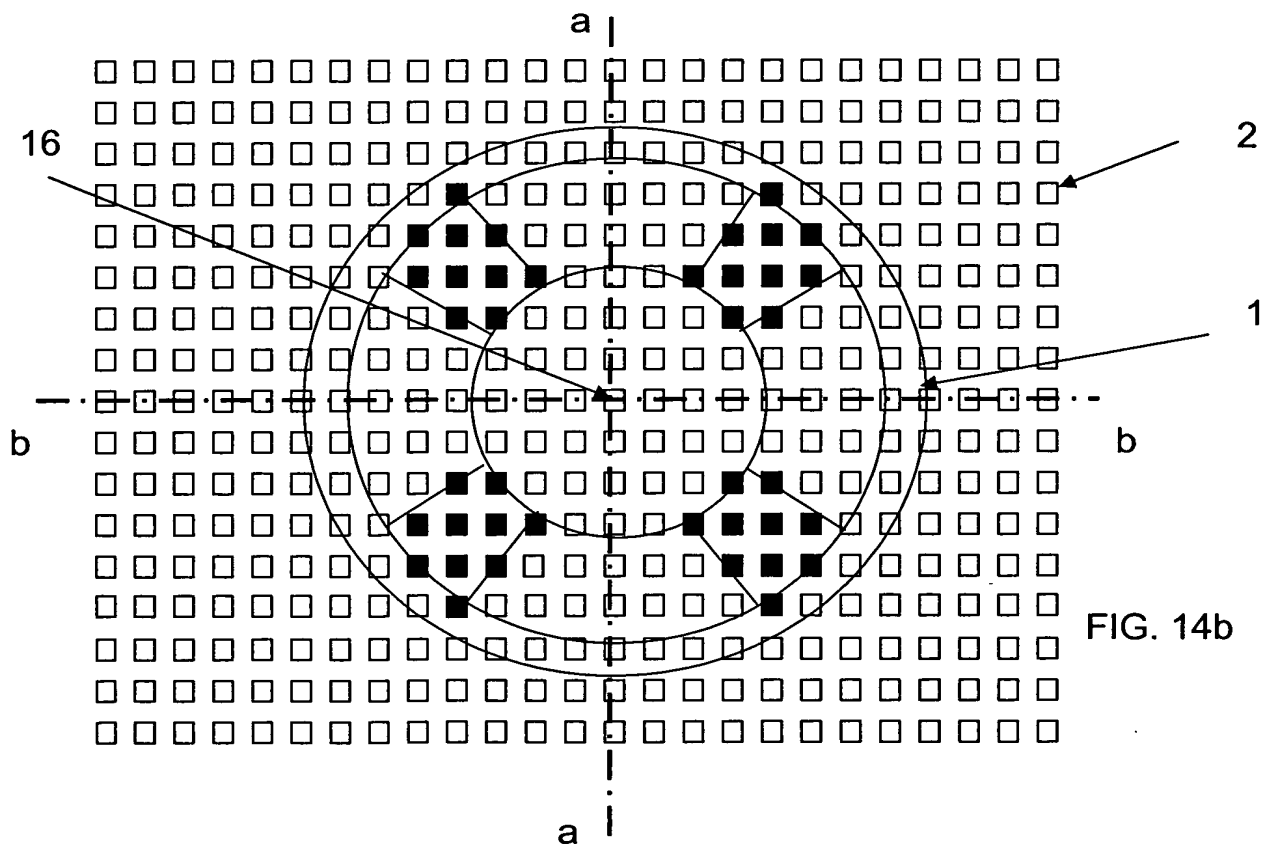
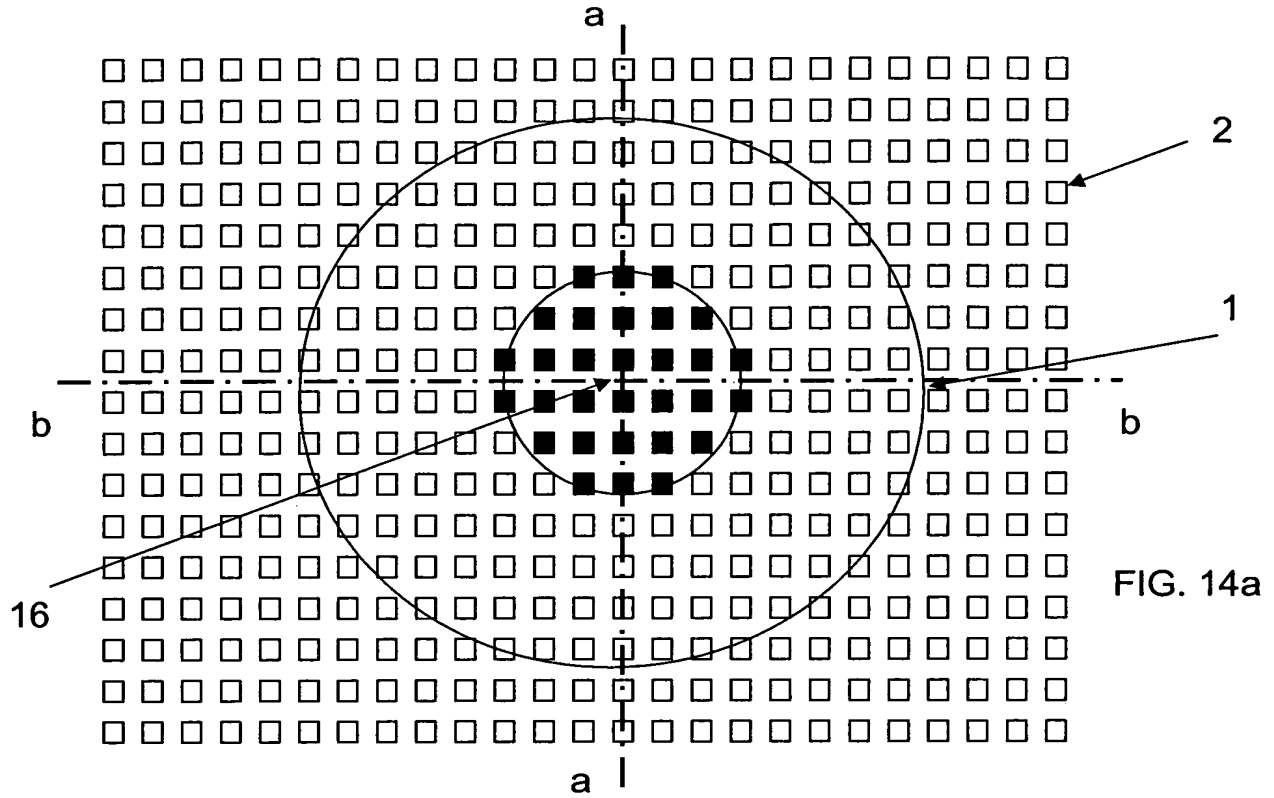


FIG. 9





NILS

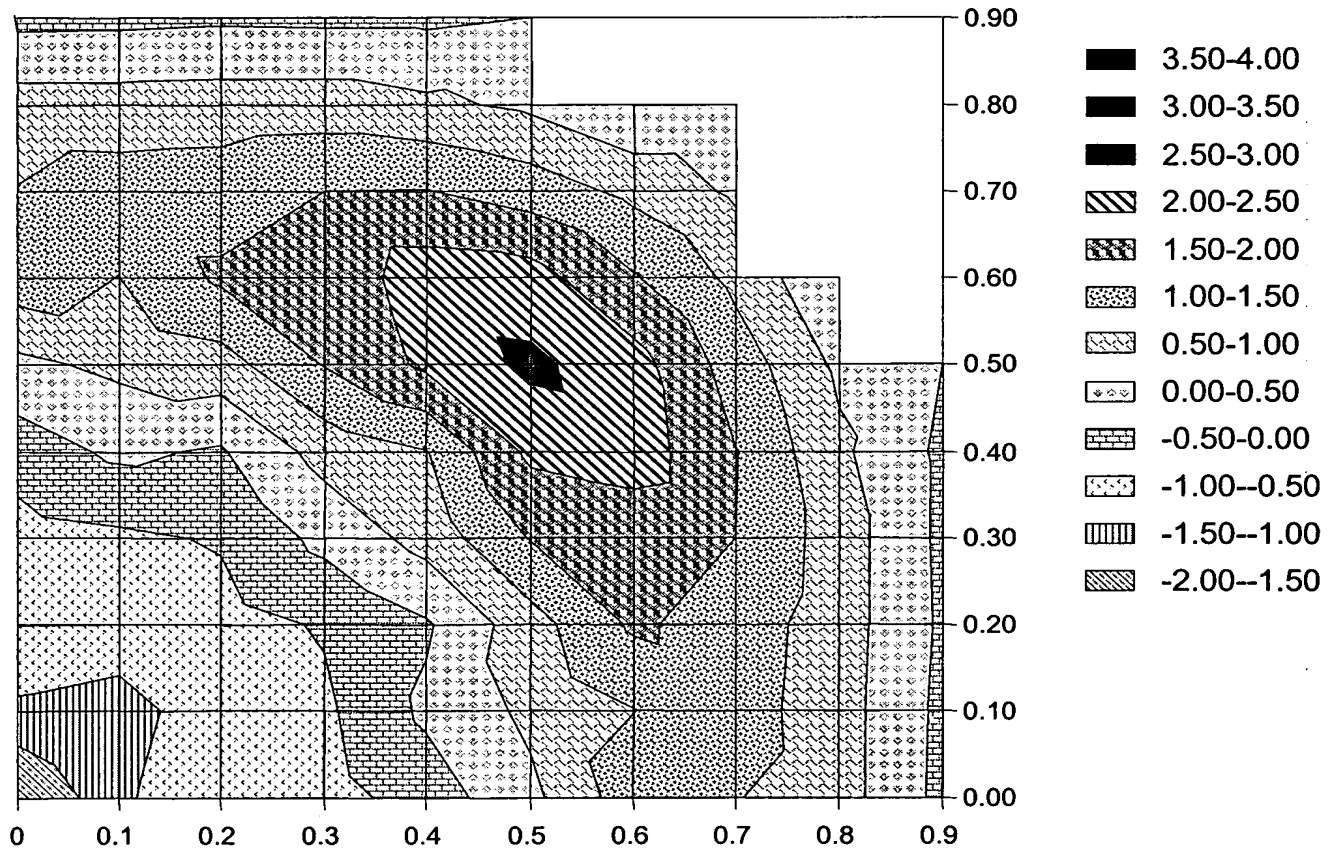


FIG. 15

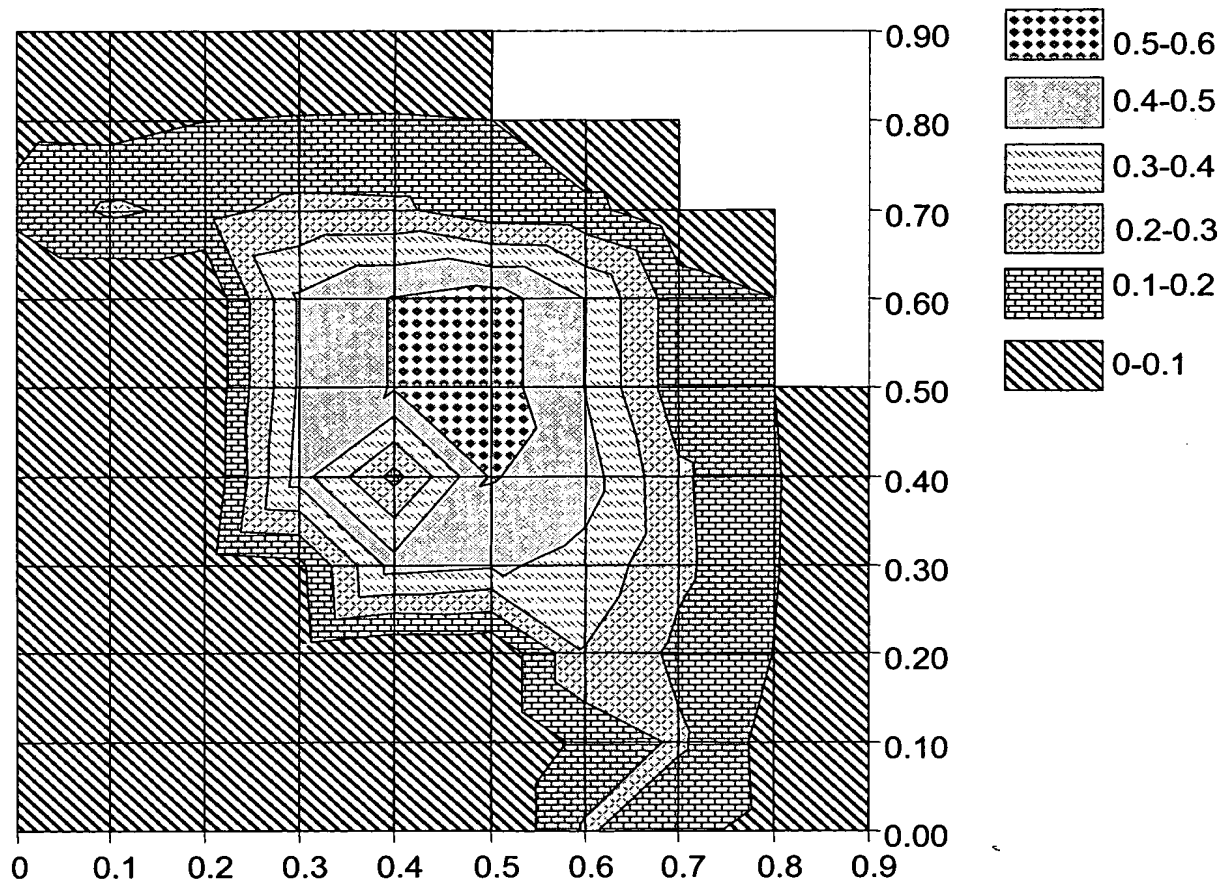


FIG. 17

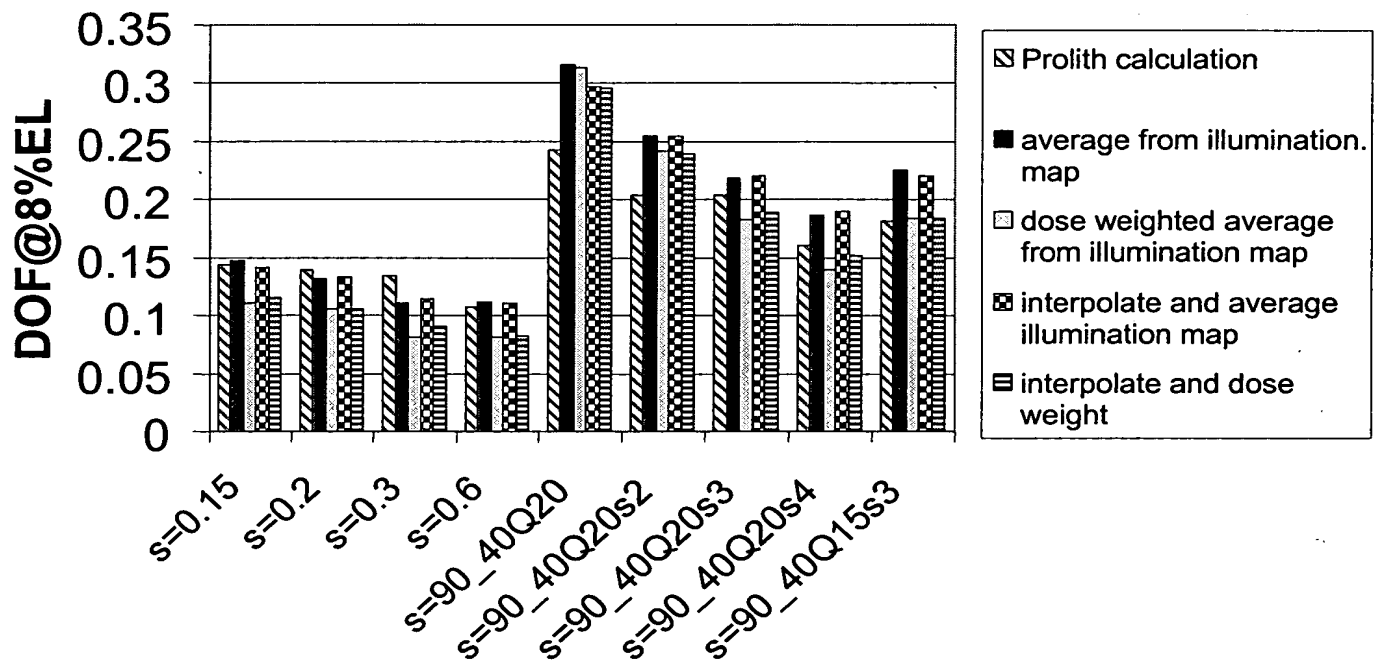
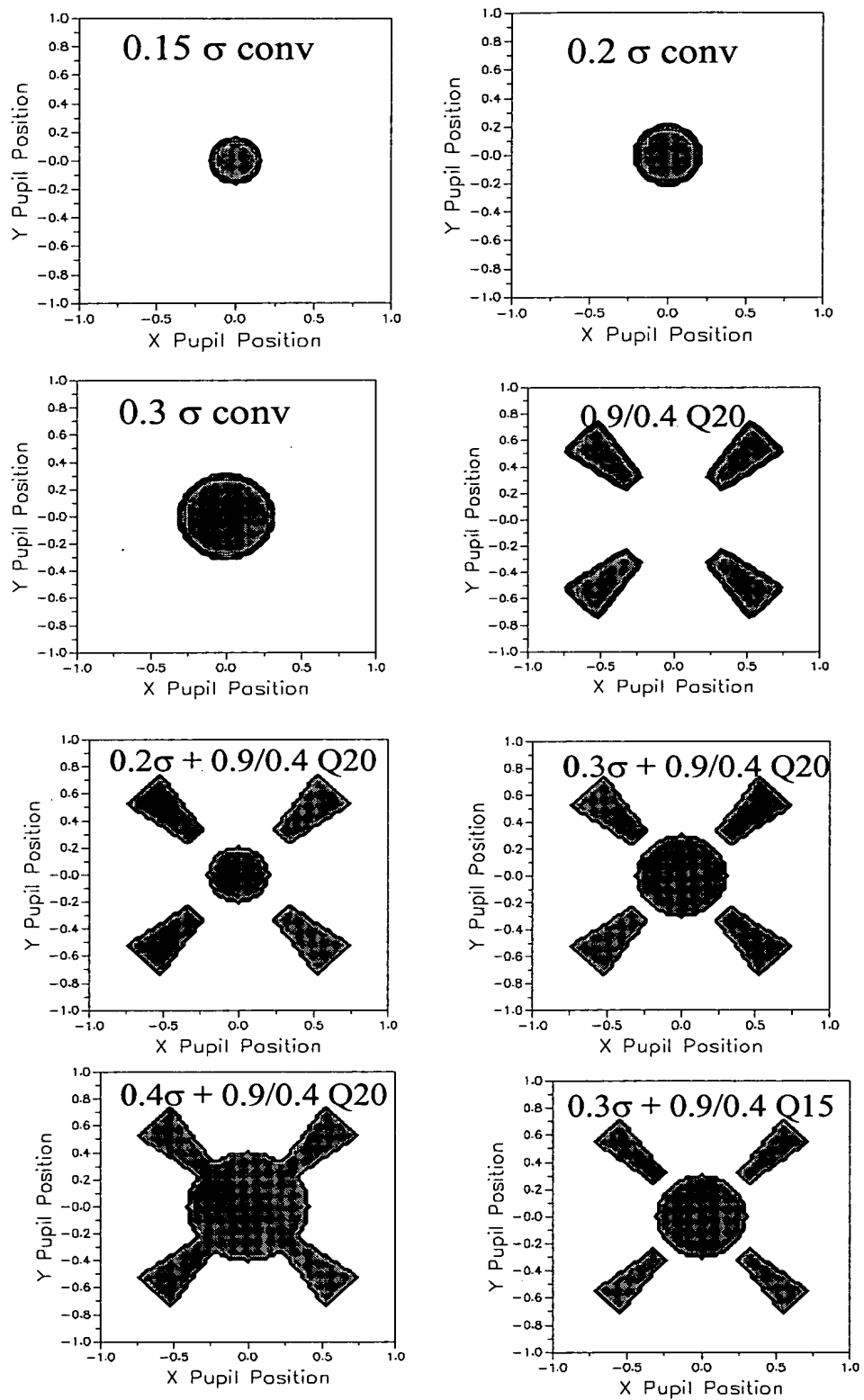


FIG. 19

FIG. 20



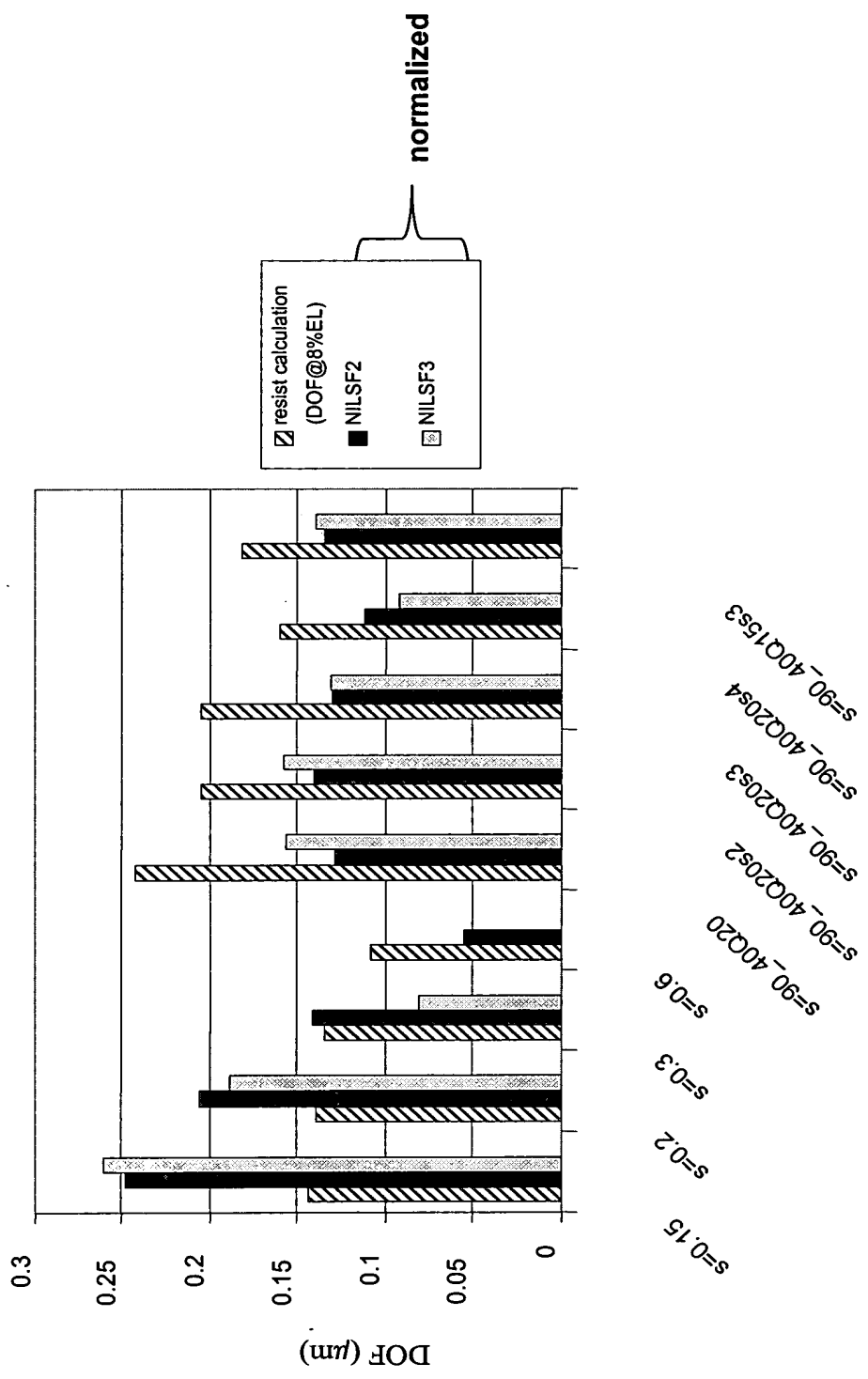


FIG. 22

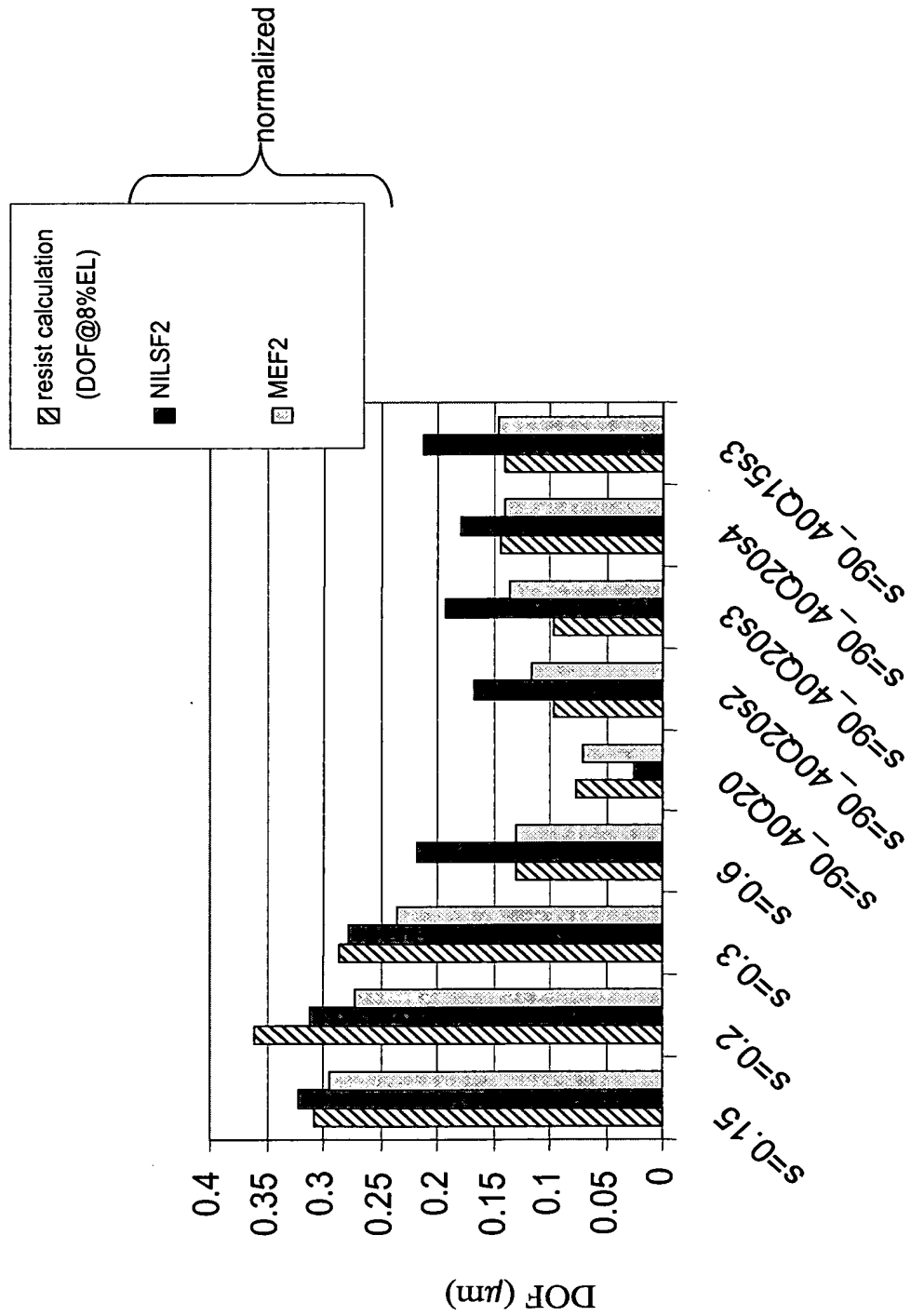


FIG. 23

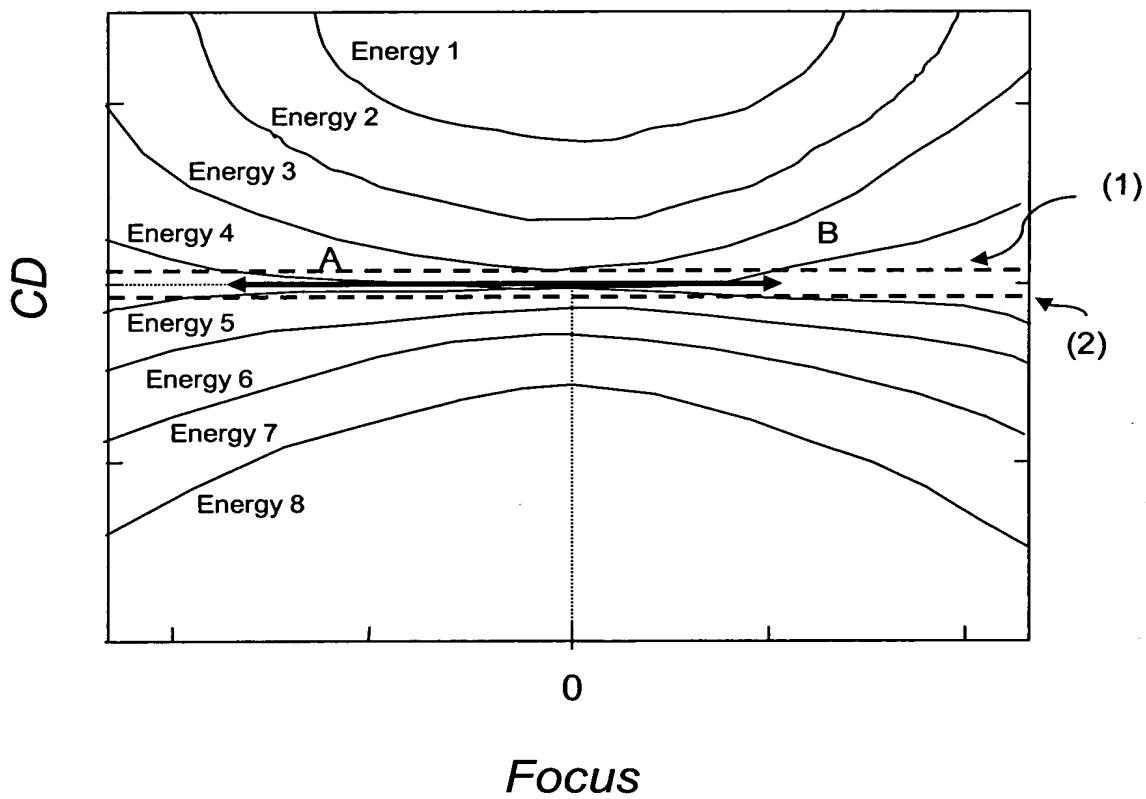


FIG. 25

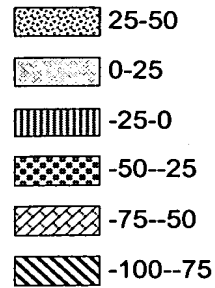


FIG. 26a

isofocal curvature

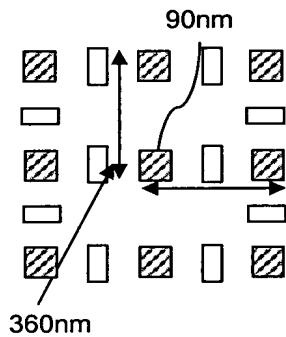
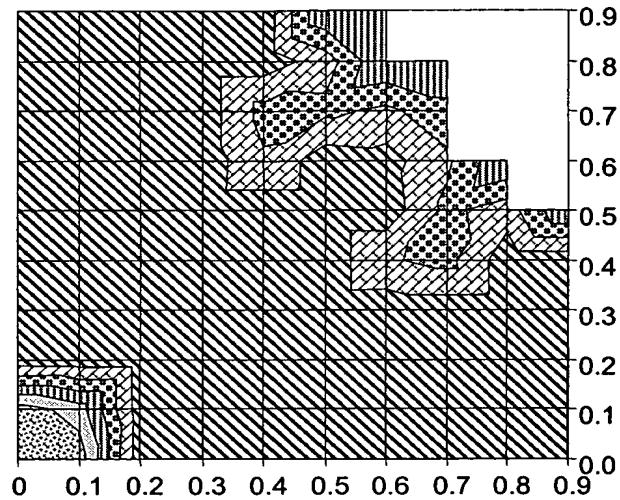


FIG. 26c

mask edge intensity change with defocus

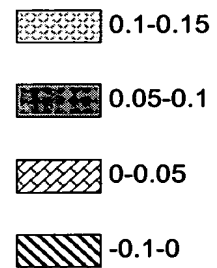
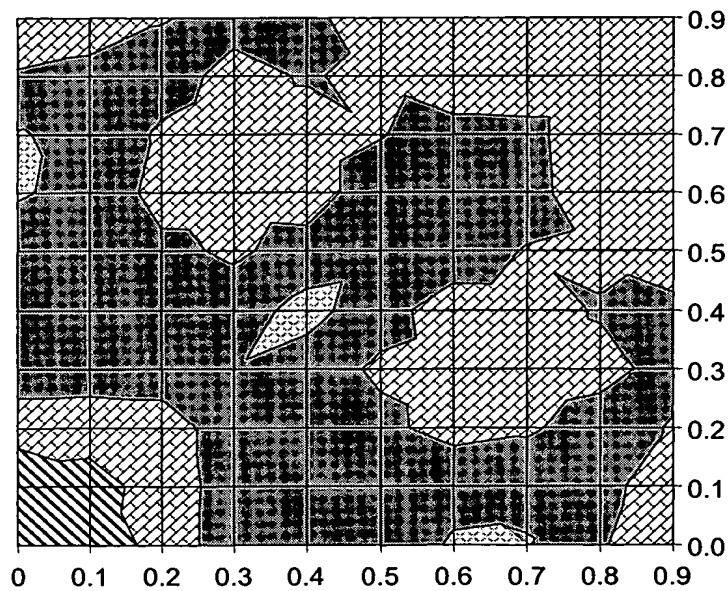


FIG. 26b

FIG. 27a

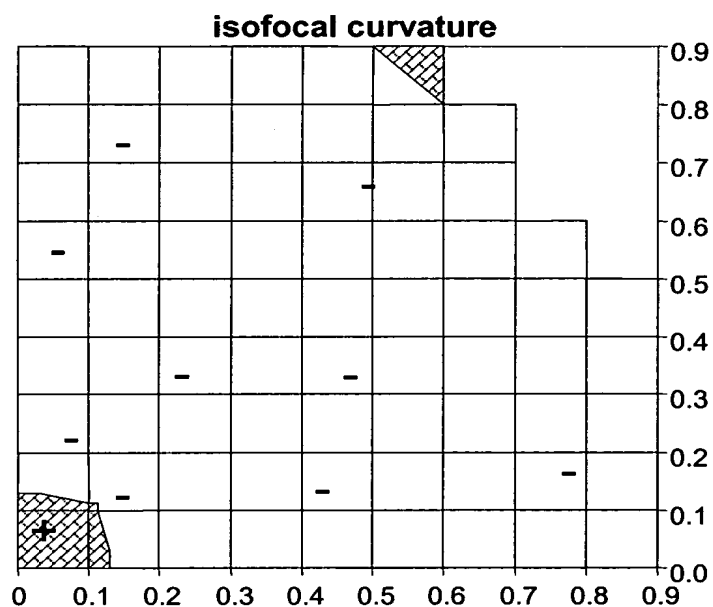


FIG. 27b

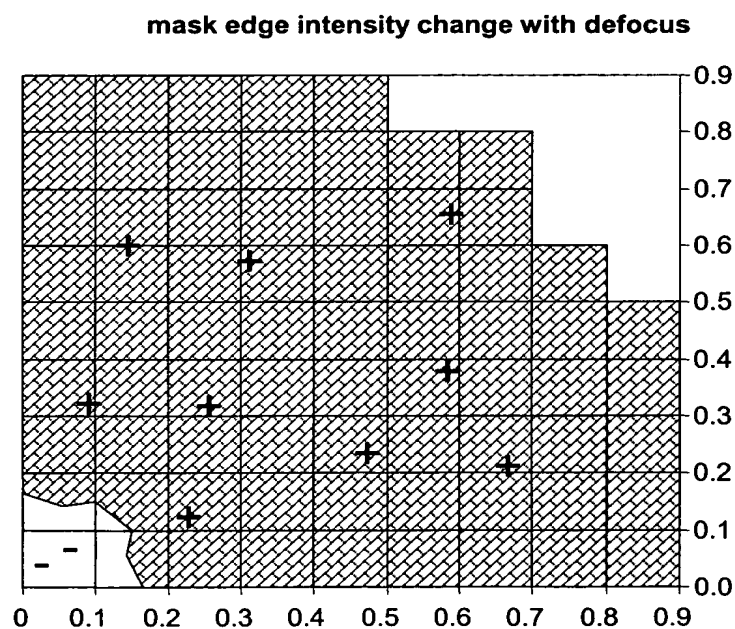


FIG. 28

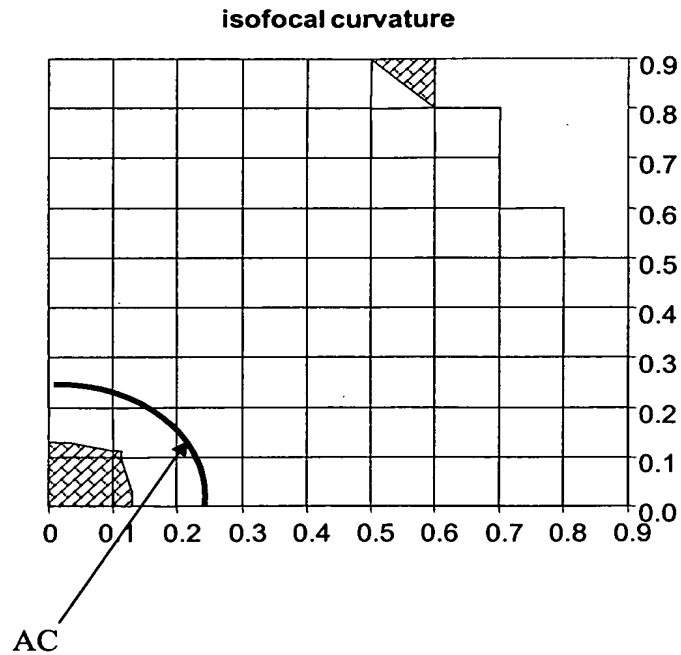


FIG. 29

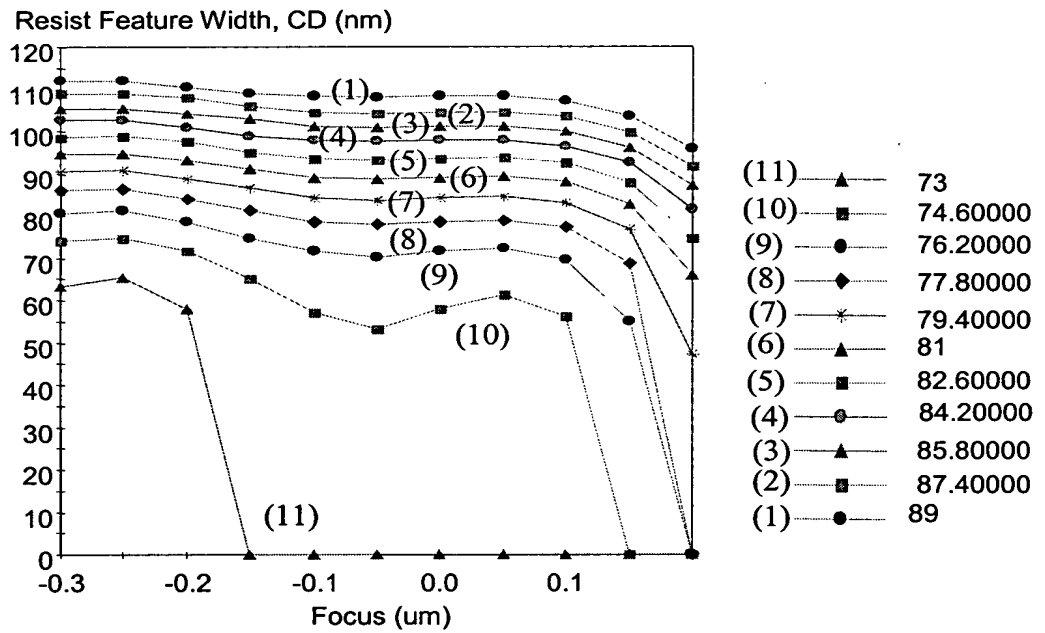


FIG. 30a

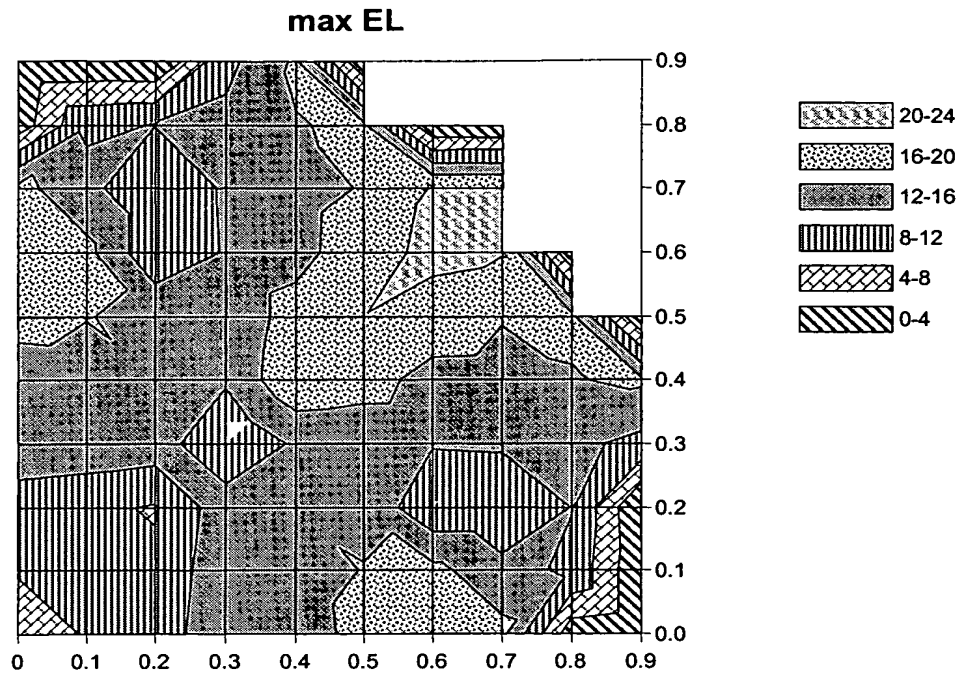


FIG. 30b

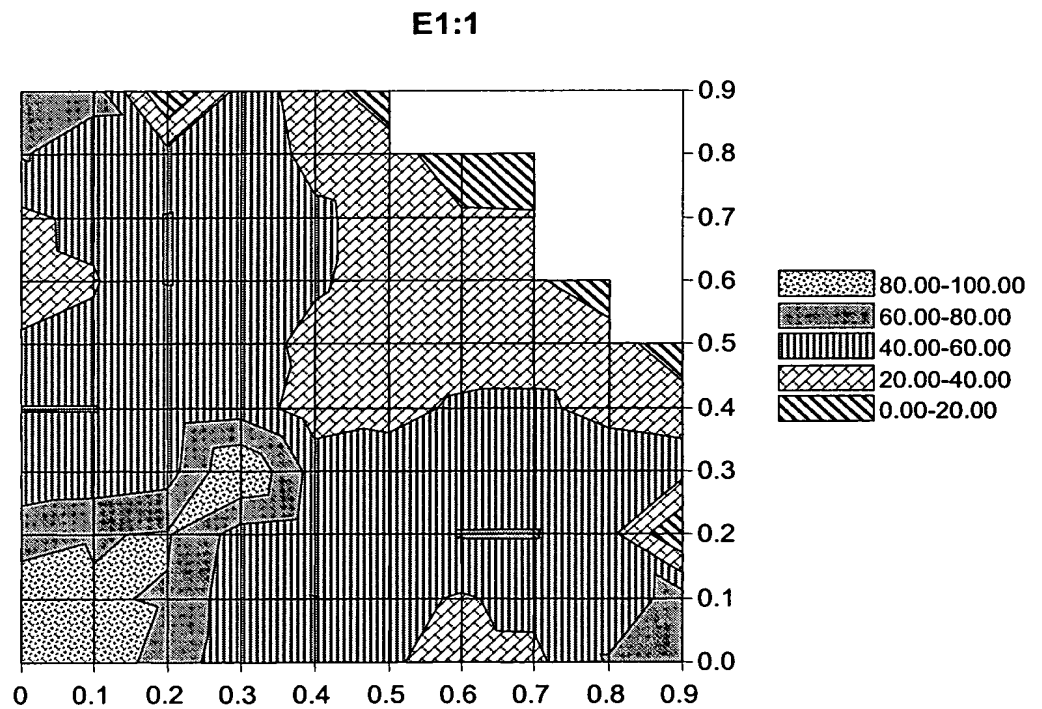


FIG. 31

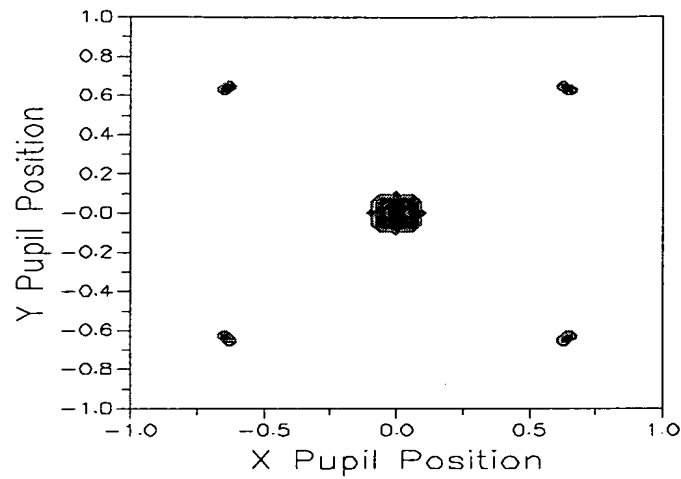


FIG. 32

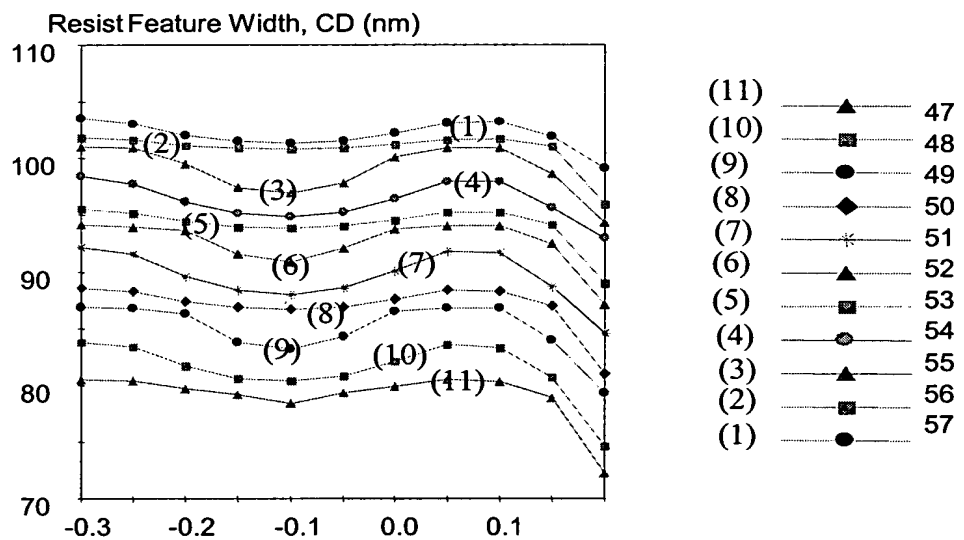


FIG. 33

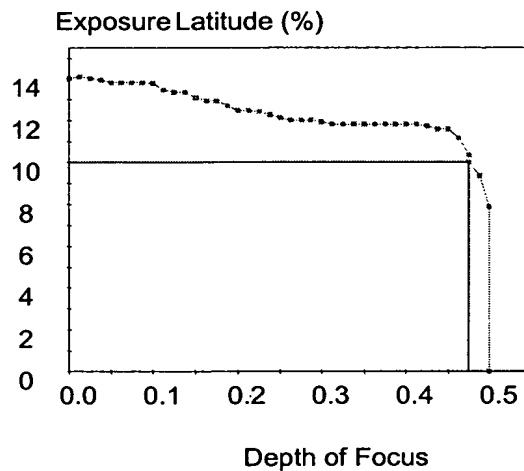


FIG. 34

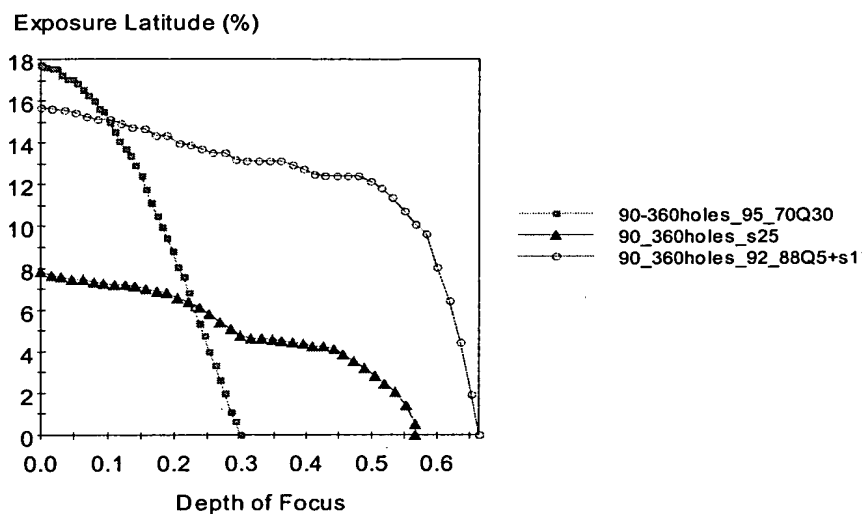
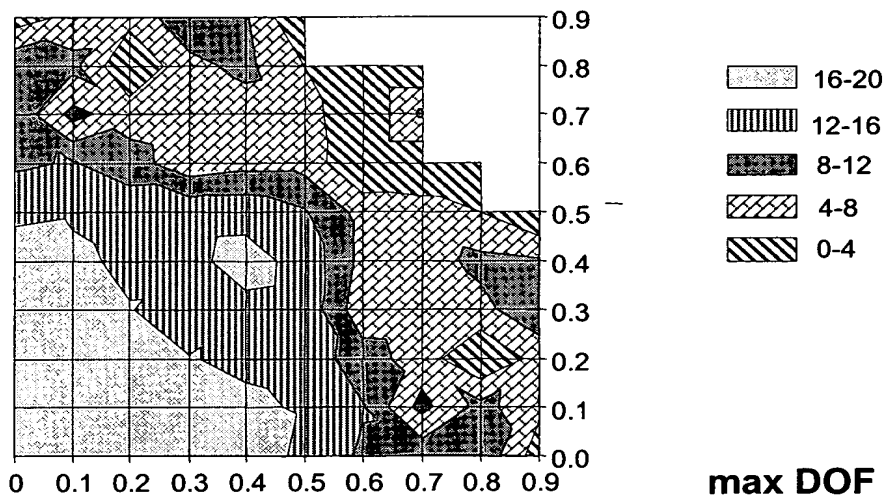


FIG. 35a max EL



max DOF

FIG. 35b

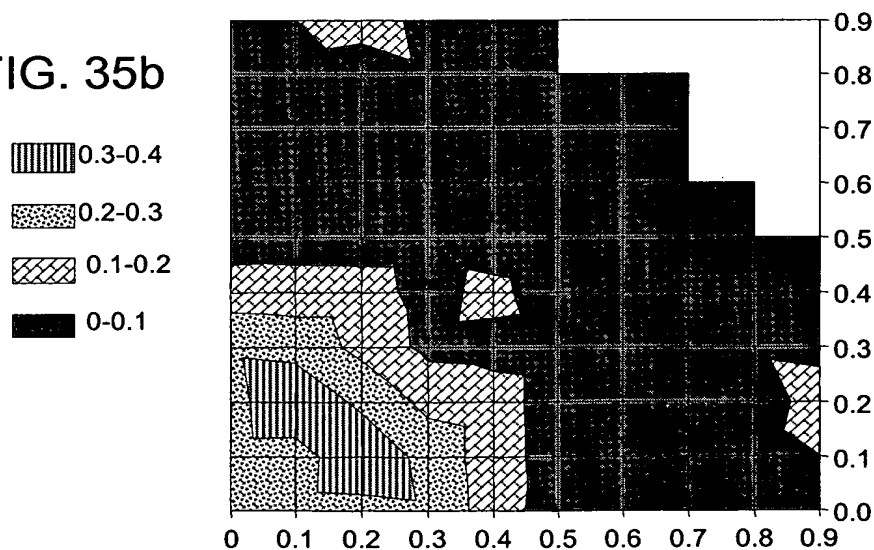


FIG. 35c

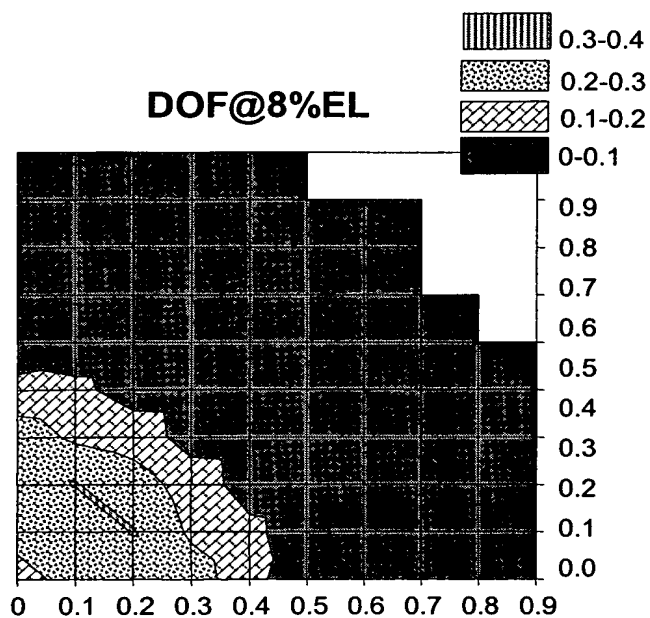
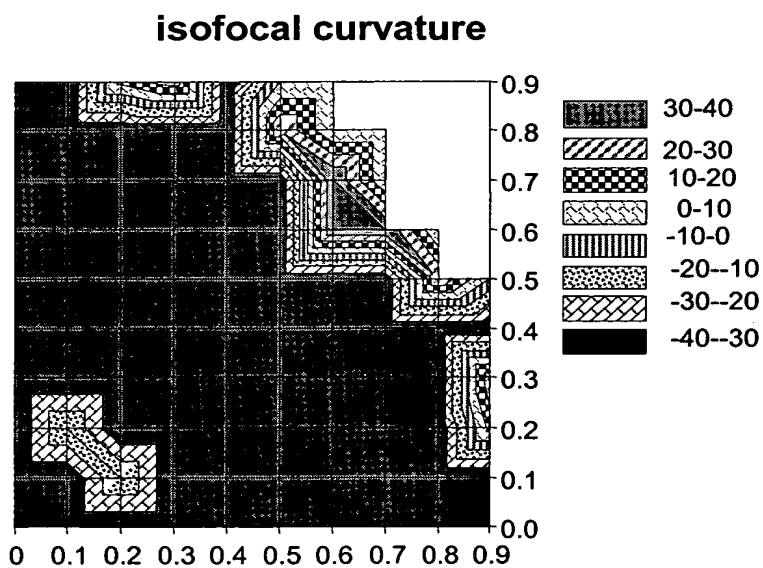


FIG. 35d



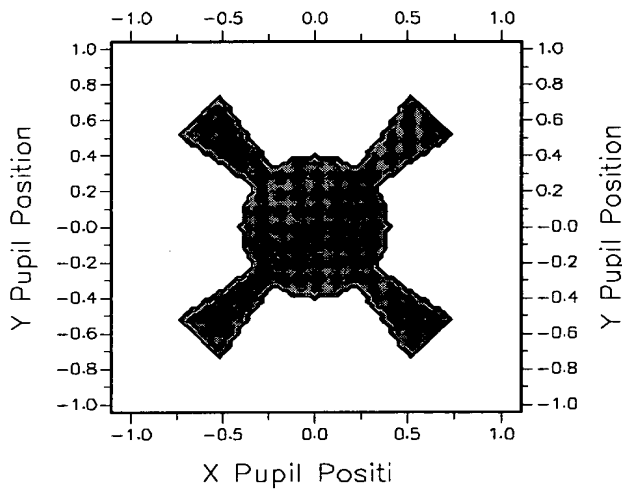
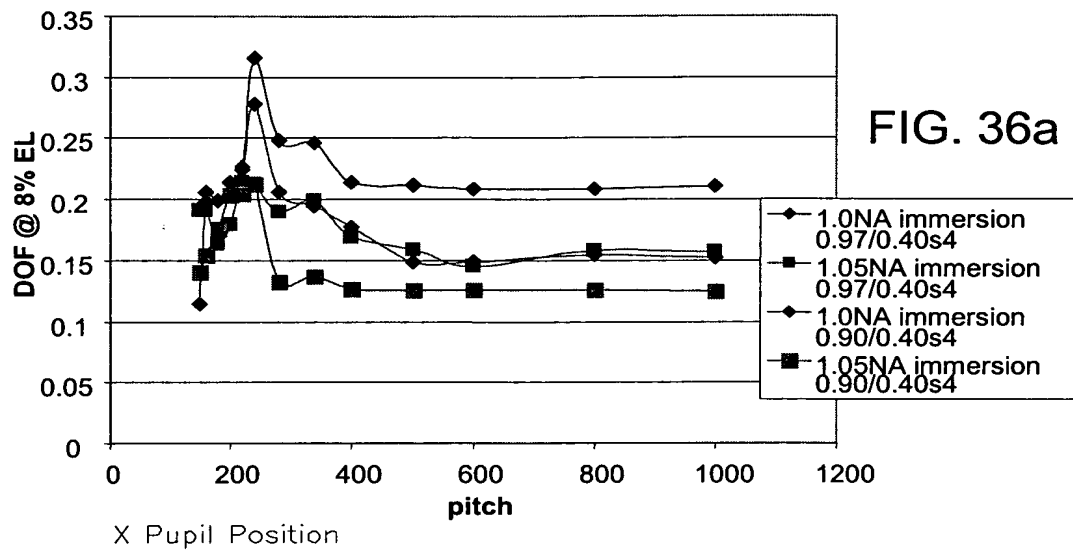
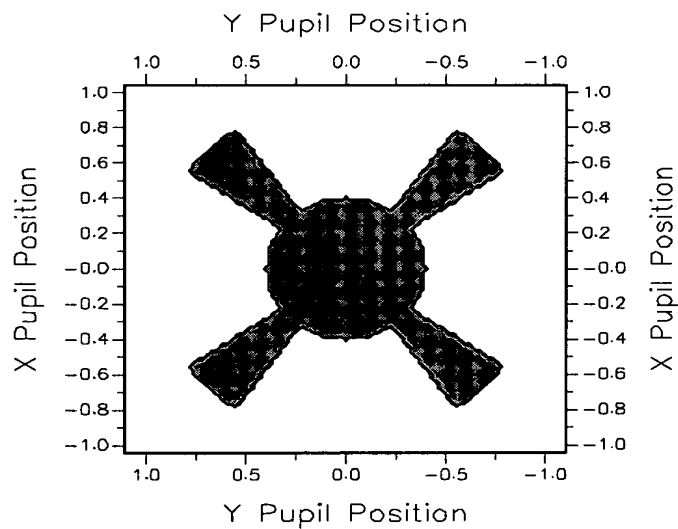


FIG. 36c



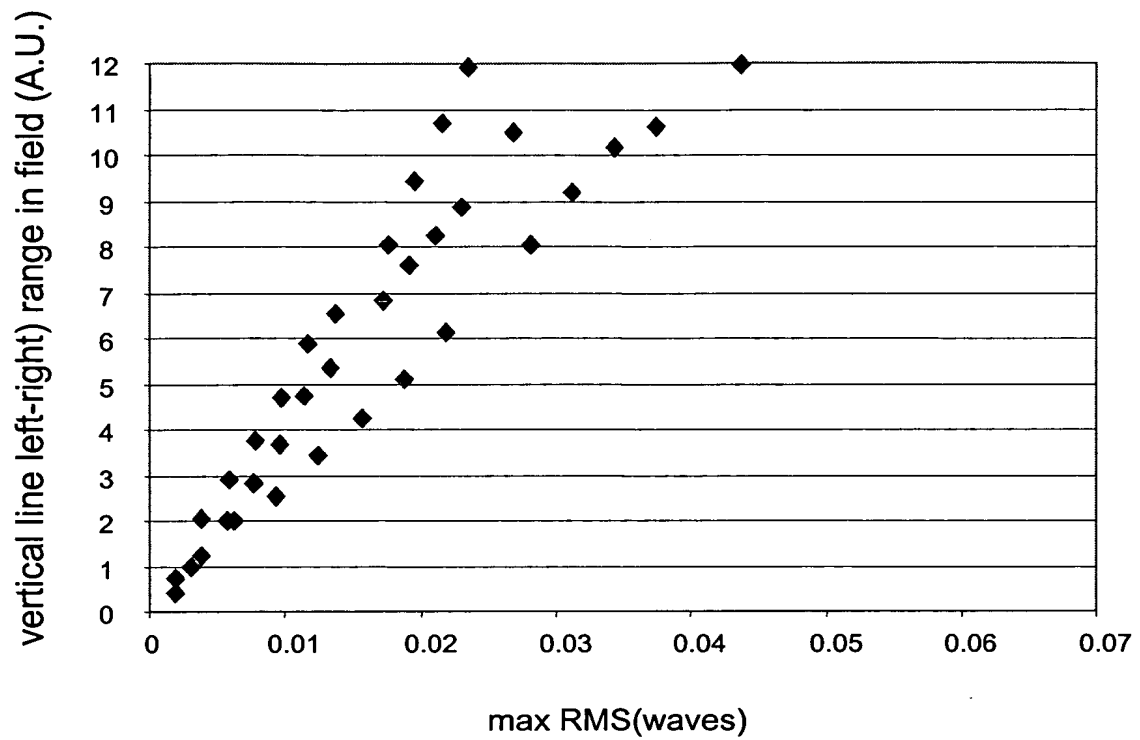


FIG. 38a

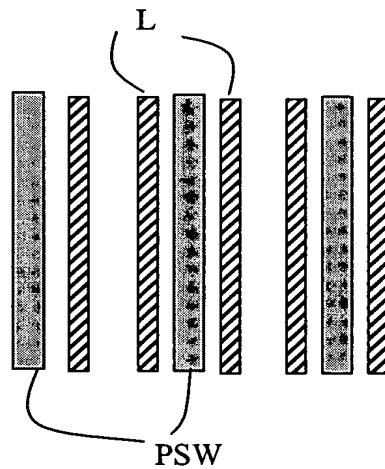


FIG. 38b

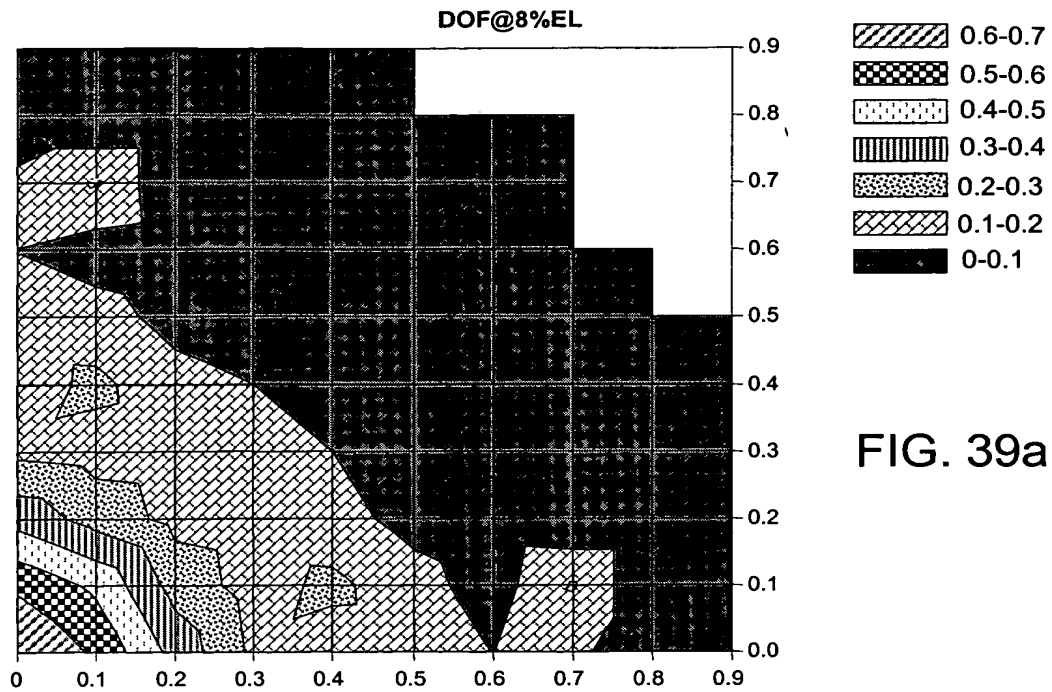


FIG. 39a

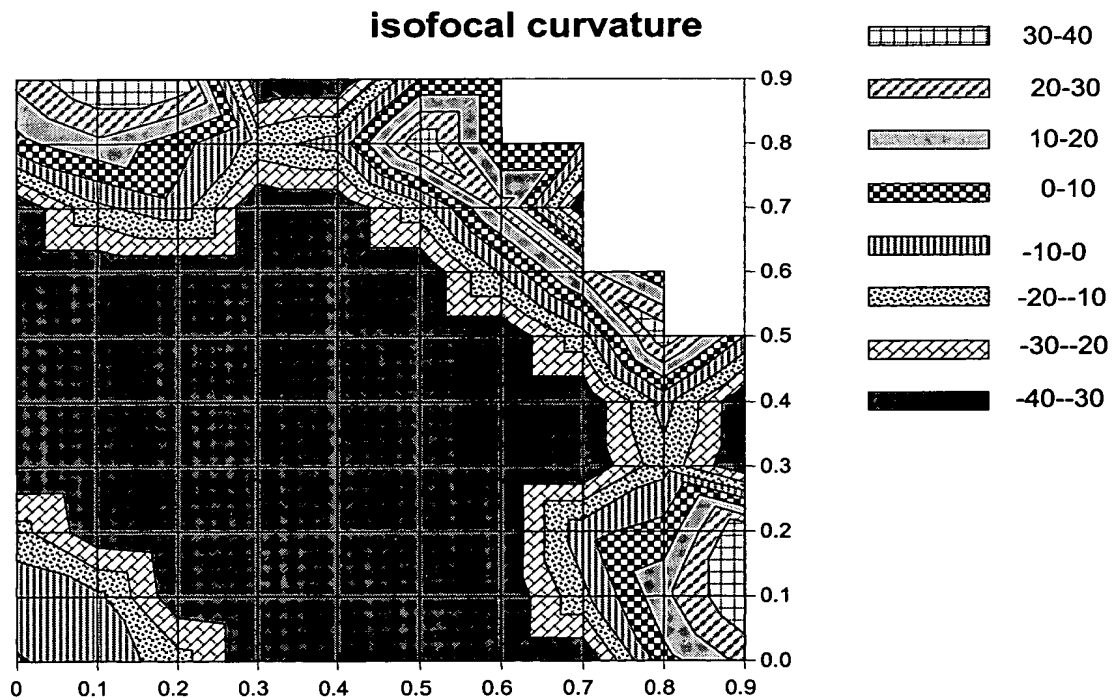


FIG. 39b

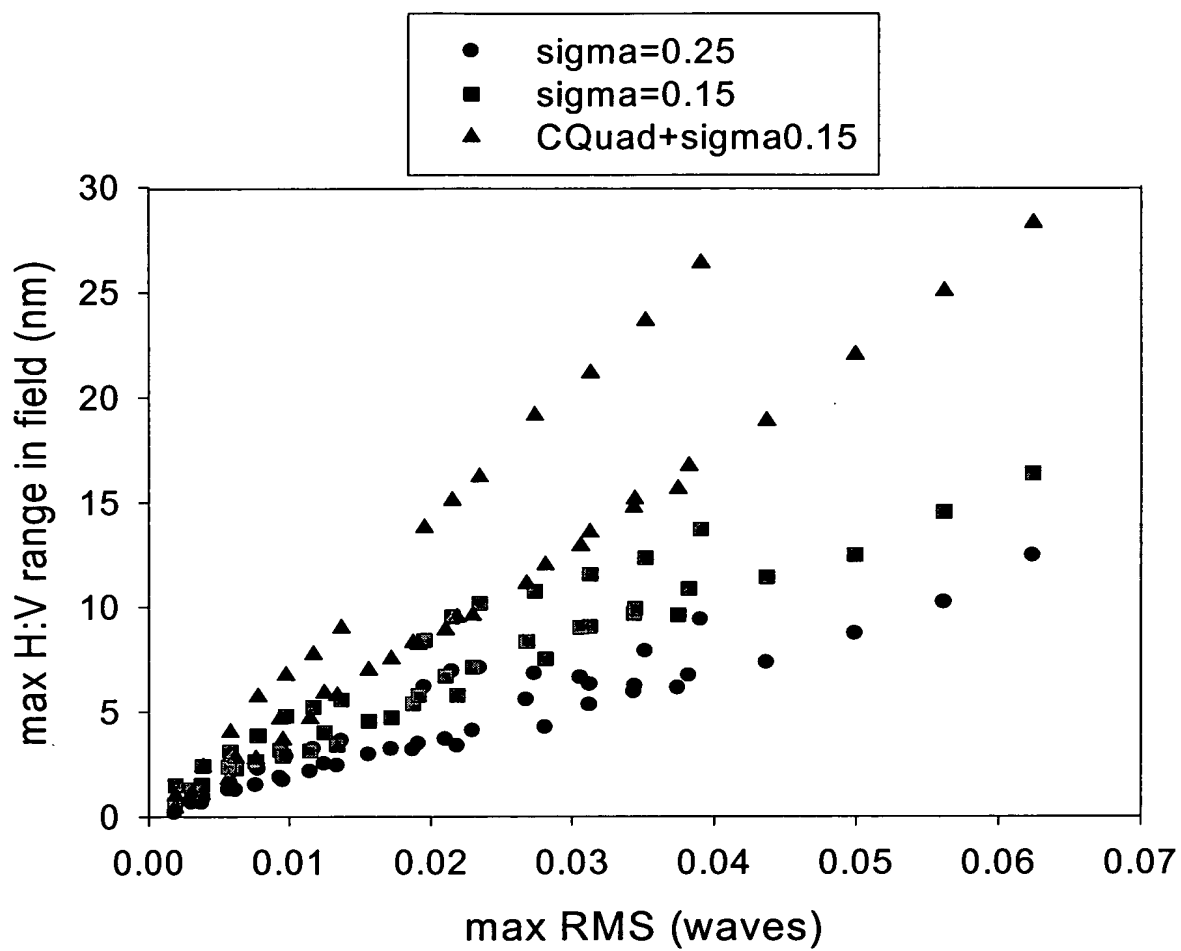
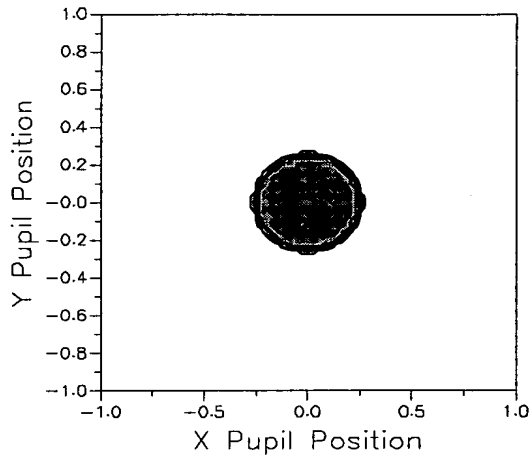
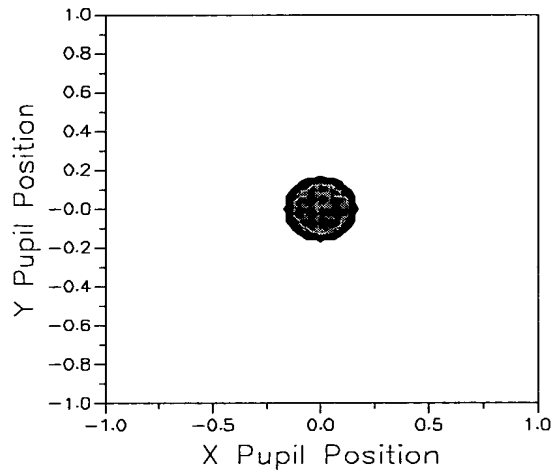


FIG. 40

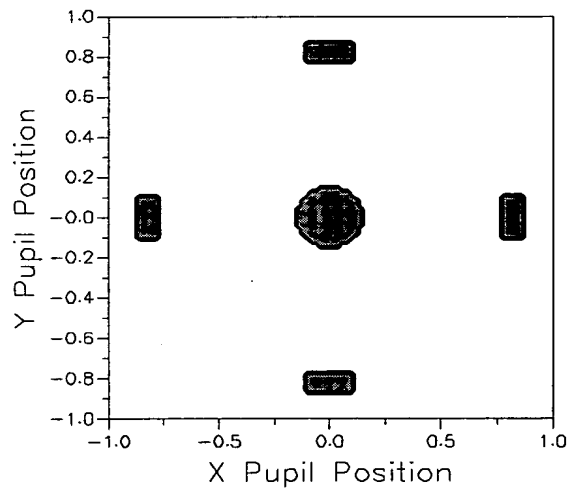


(a)



(b)

FIG. 41



(c)

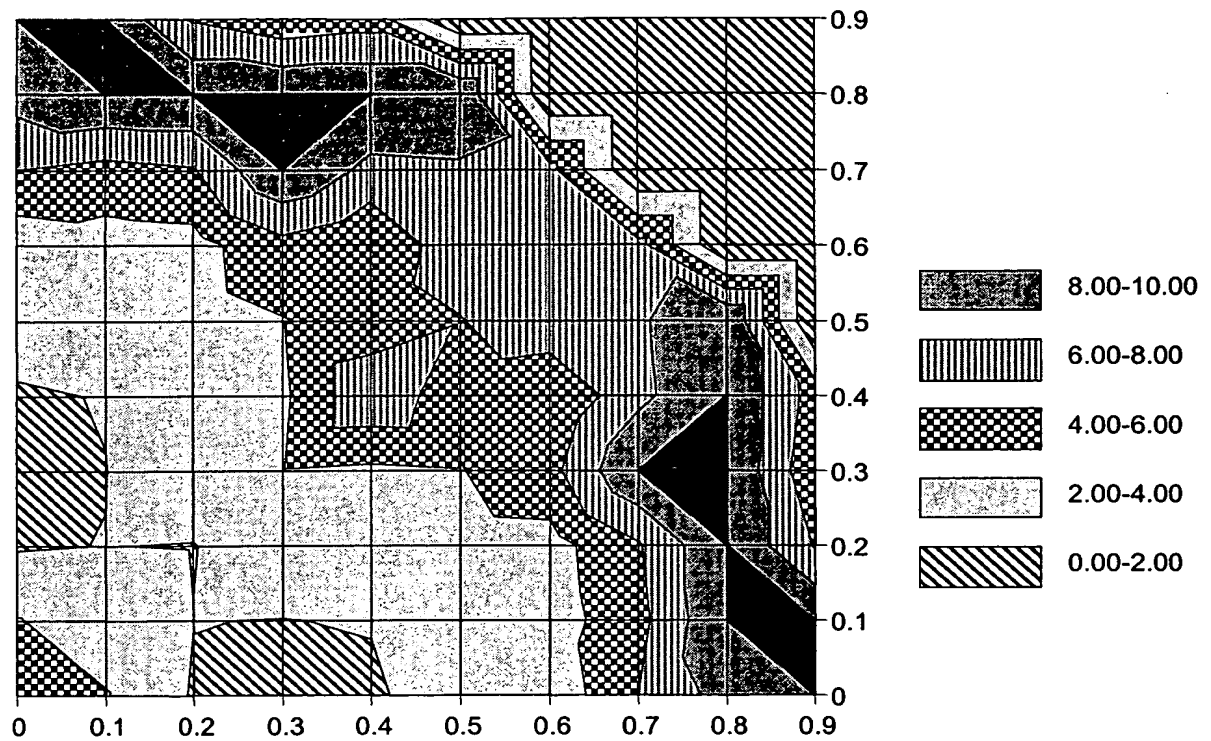


FIG. 42

DOF@8%EL

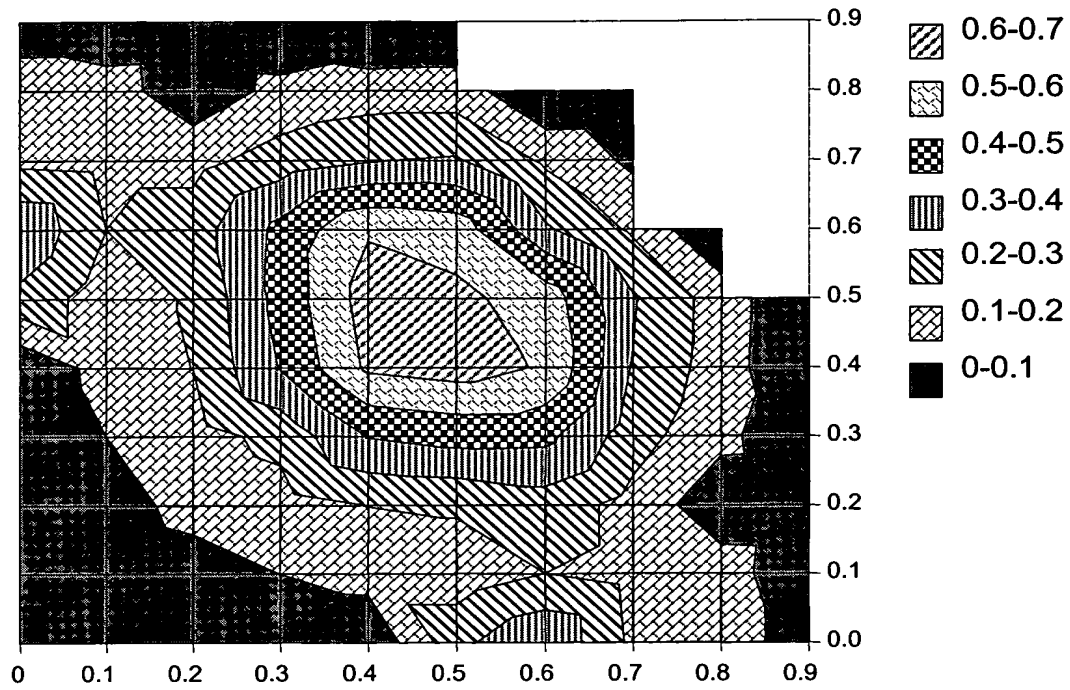


FIG. 43

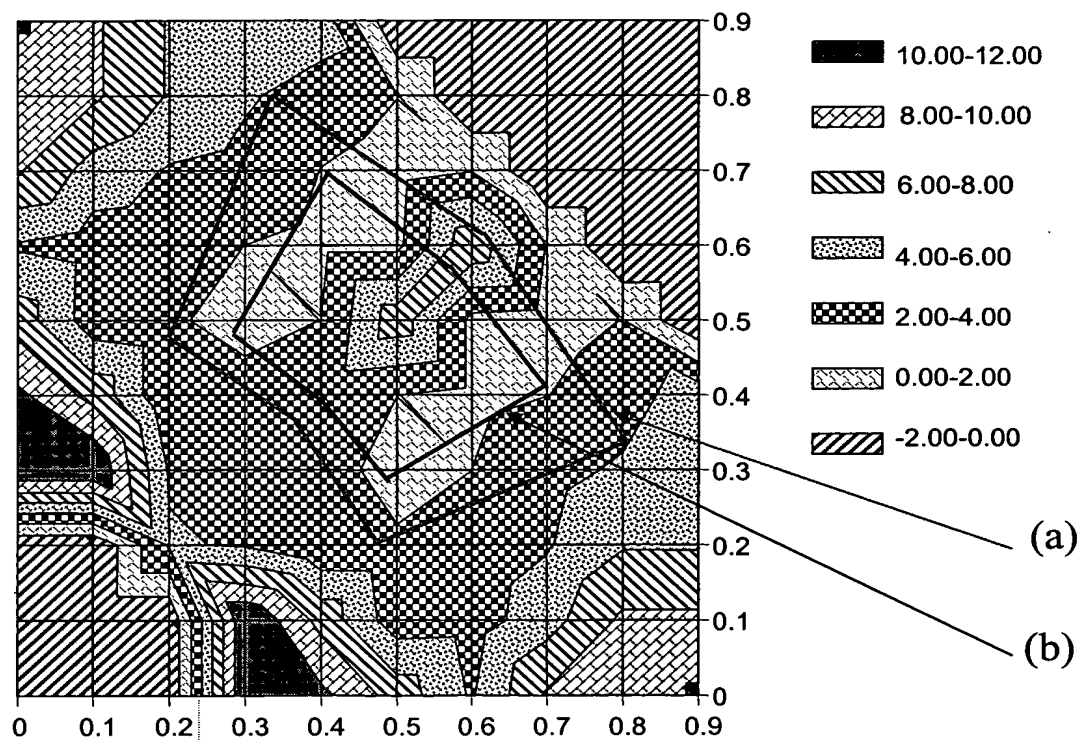


FIG. 44

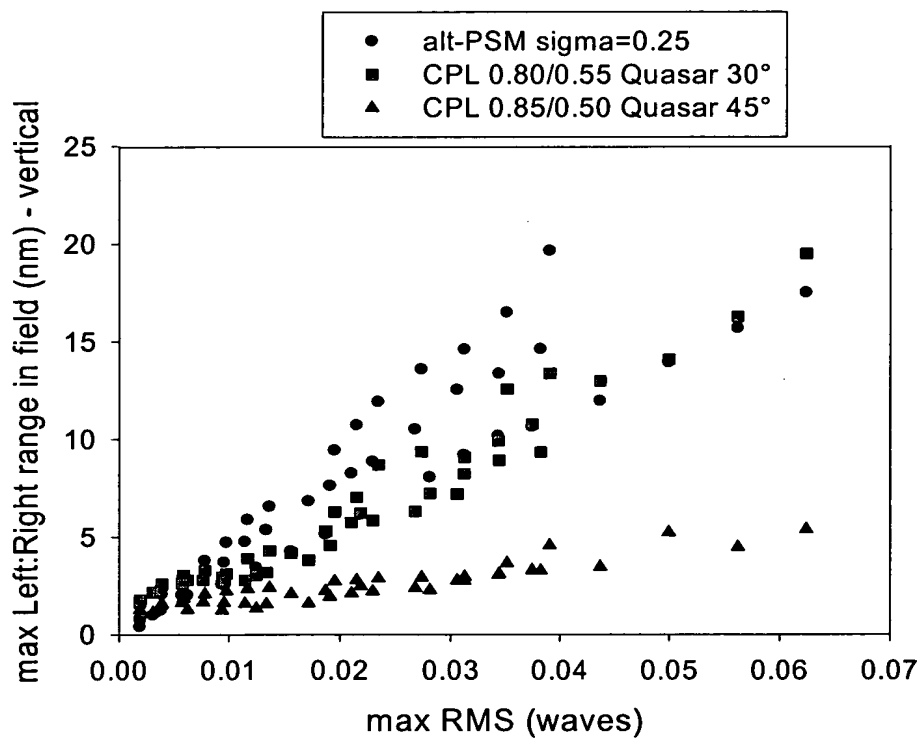
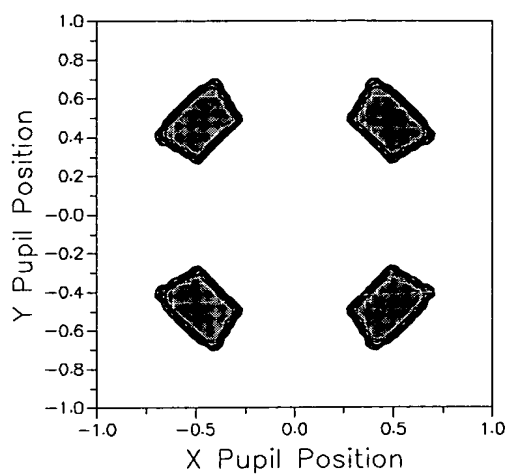
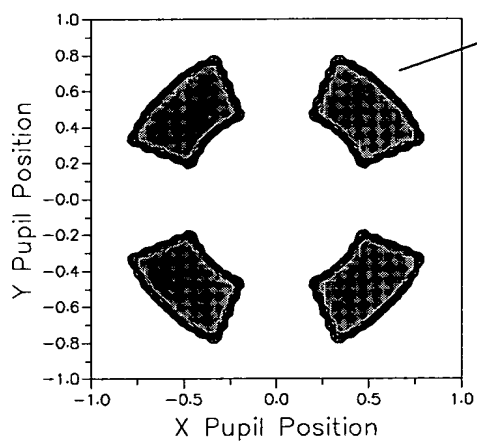


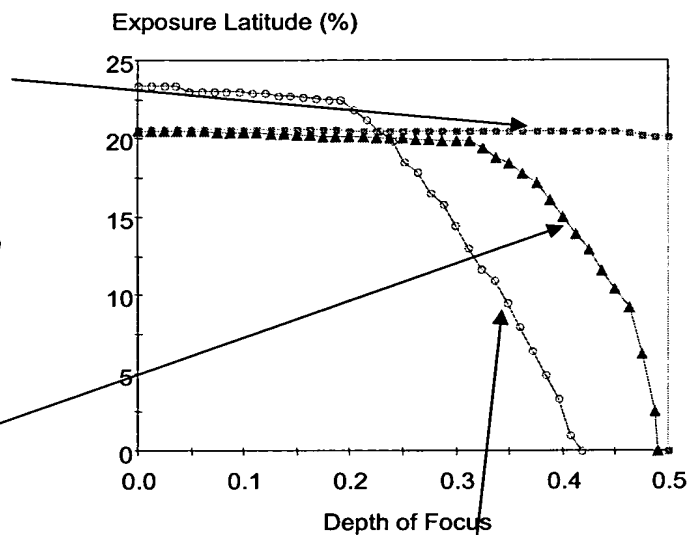
FIG. 45



(b)



(a)



(c)

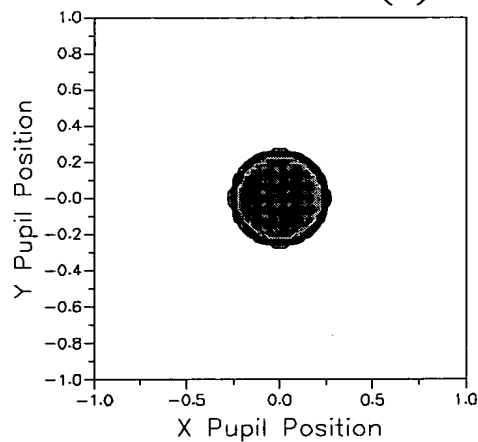


FIG. 46

FIG. 48

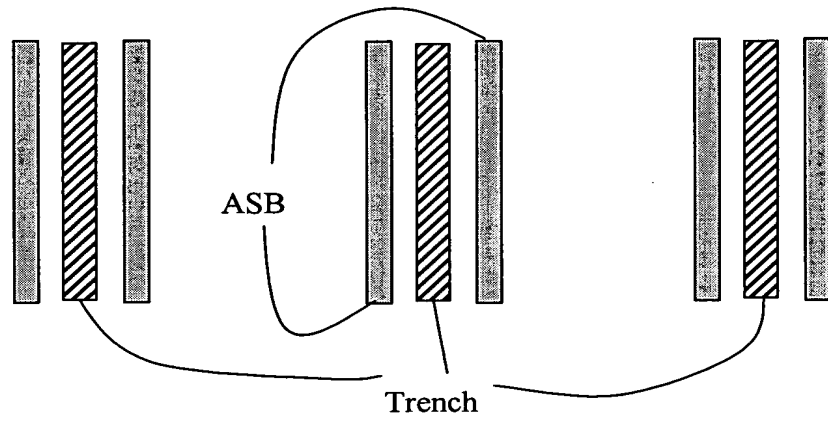


FIG. 49a

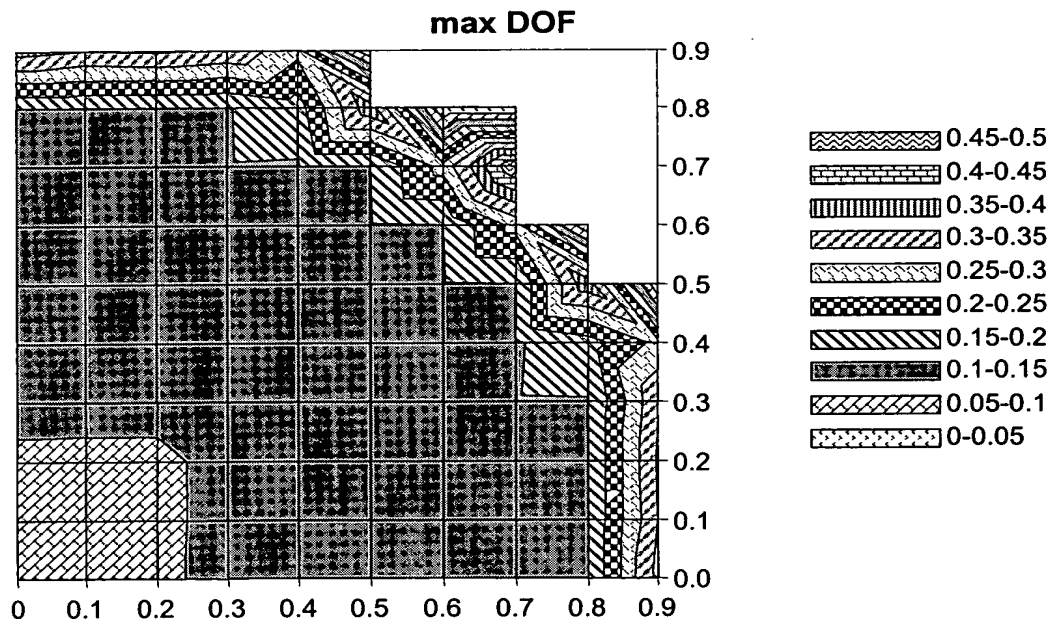
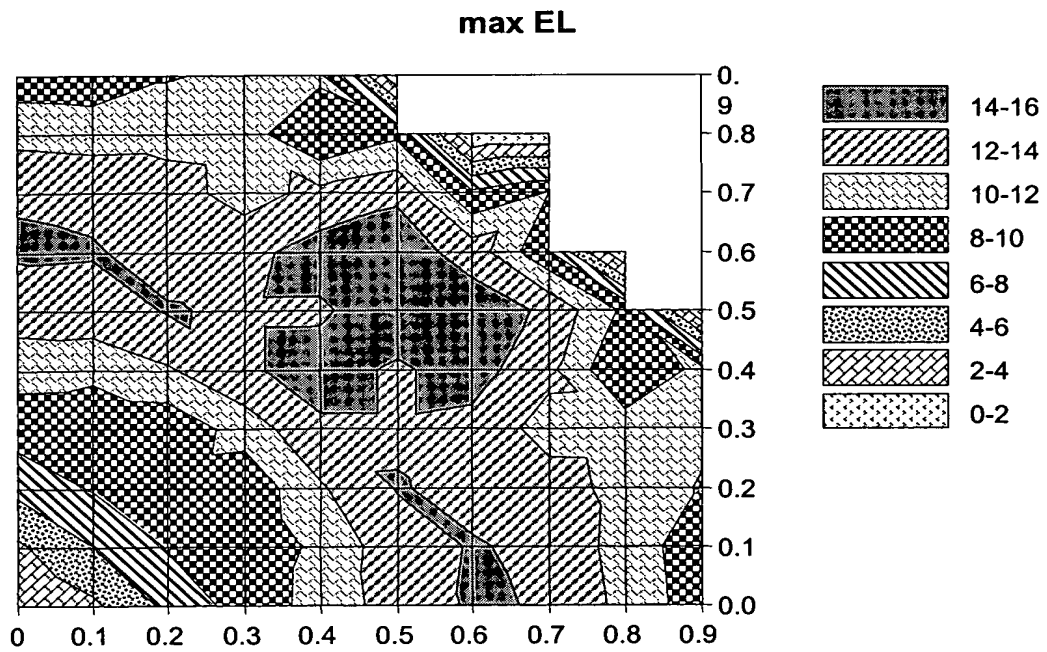


FIG. 49b



Exposure Latitude (%)

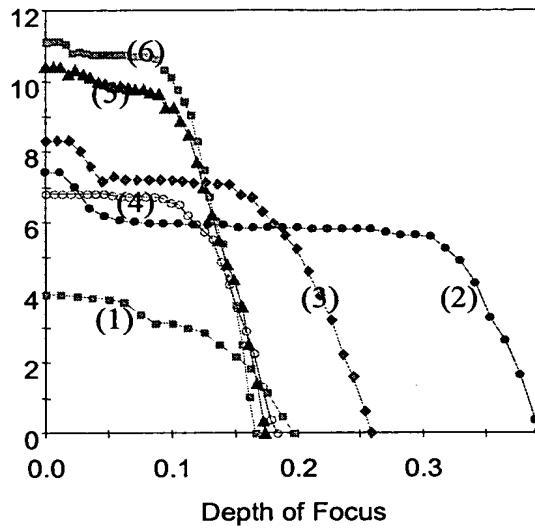


FIG. 50

Illumination

- (6) 1SB_150_90_70CQ30
- (5) 1SB_160_90_70CQ30
- (4) 1SB_180_90_70CQ30
- (3) 1SB_150_95_85CQ22.5
- (2) 1SB_160_95_85CQ22.5
- (1) 1SB_180_95_85CQ22.5

Pitch

FIG. 51a

max DOF

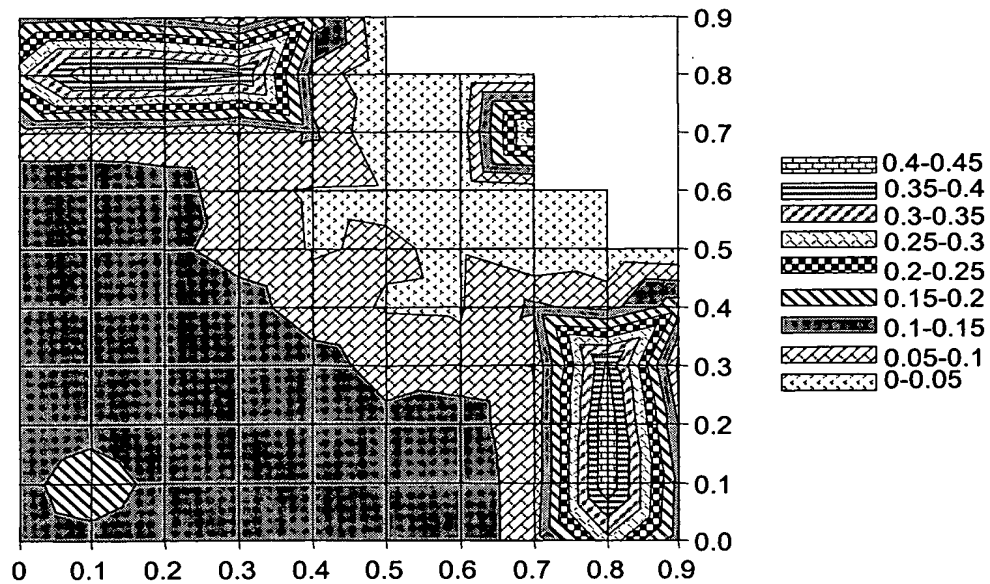
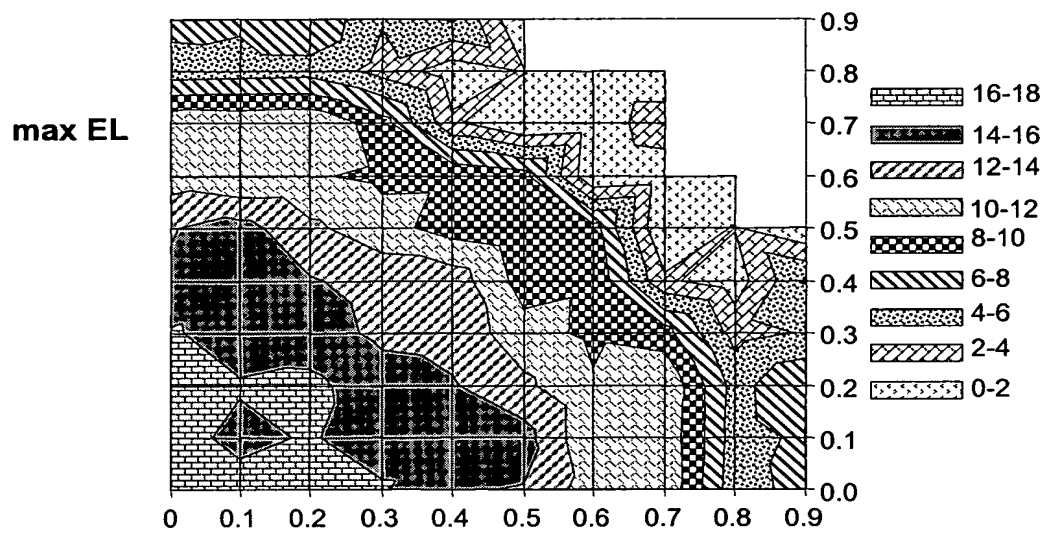
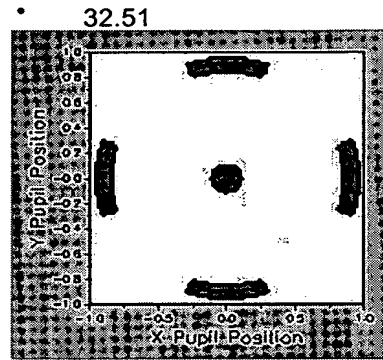
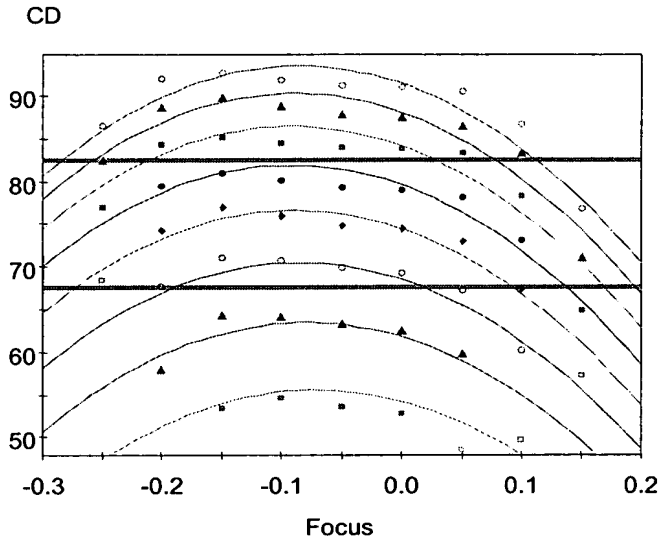


FIG. 51b





(a)

Exposure Latitude (%)

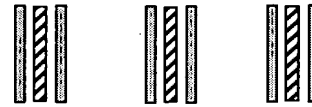
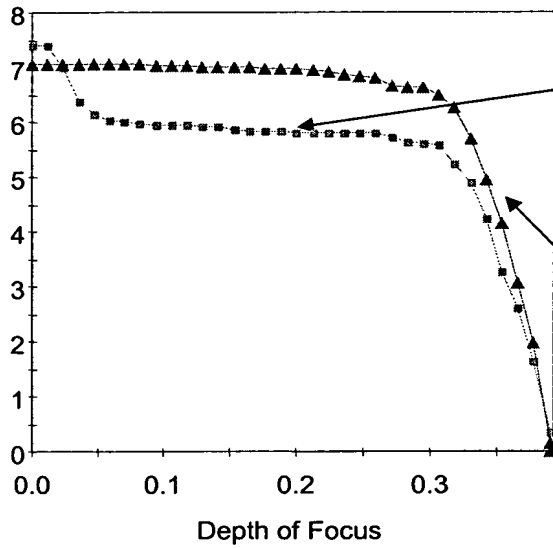
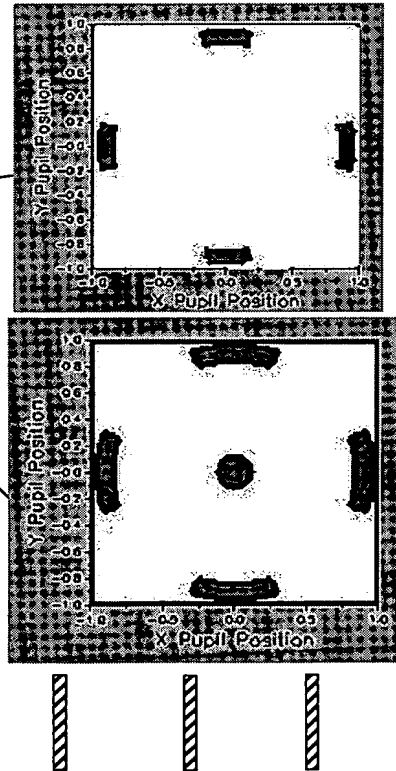
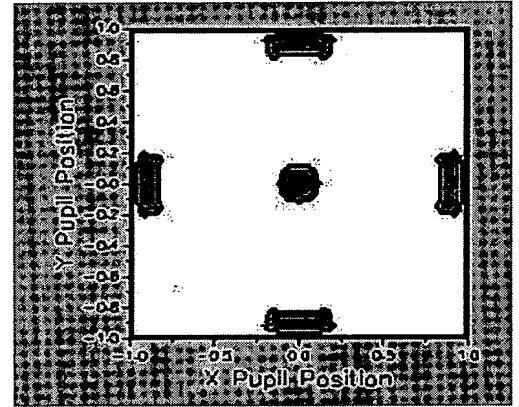


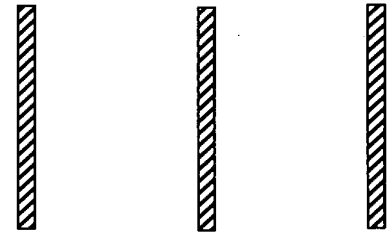
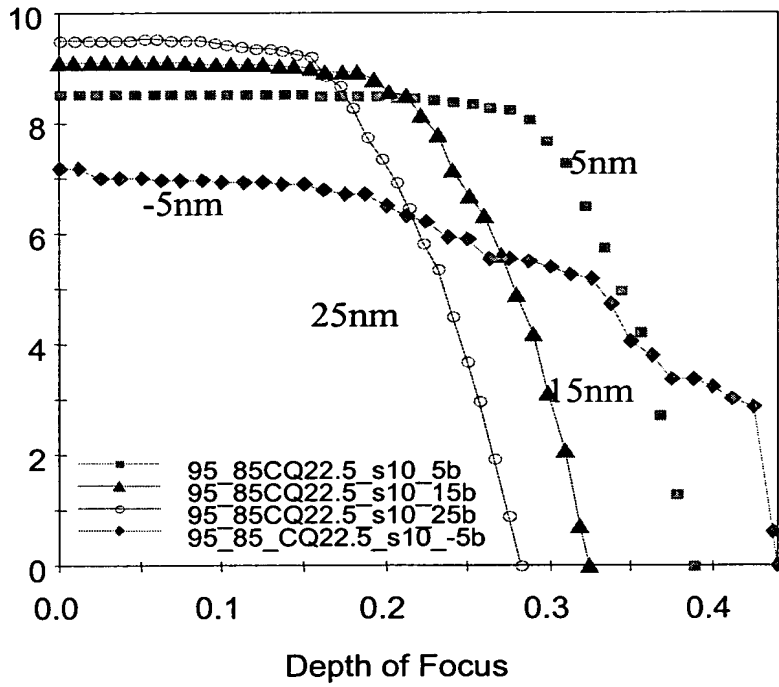
FIG. 53



(b)



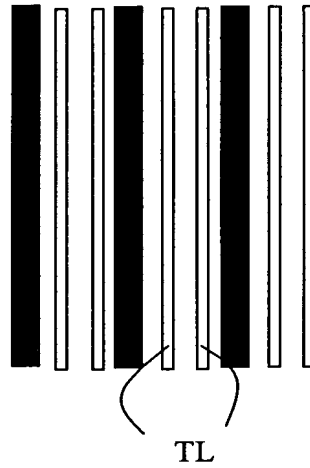
Exposure Latitude (%)



(a)

FIG.54

FIG. 56



DOF@8%EL

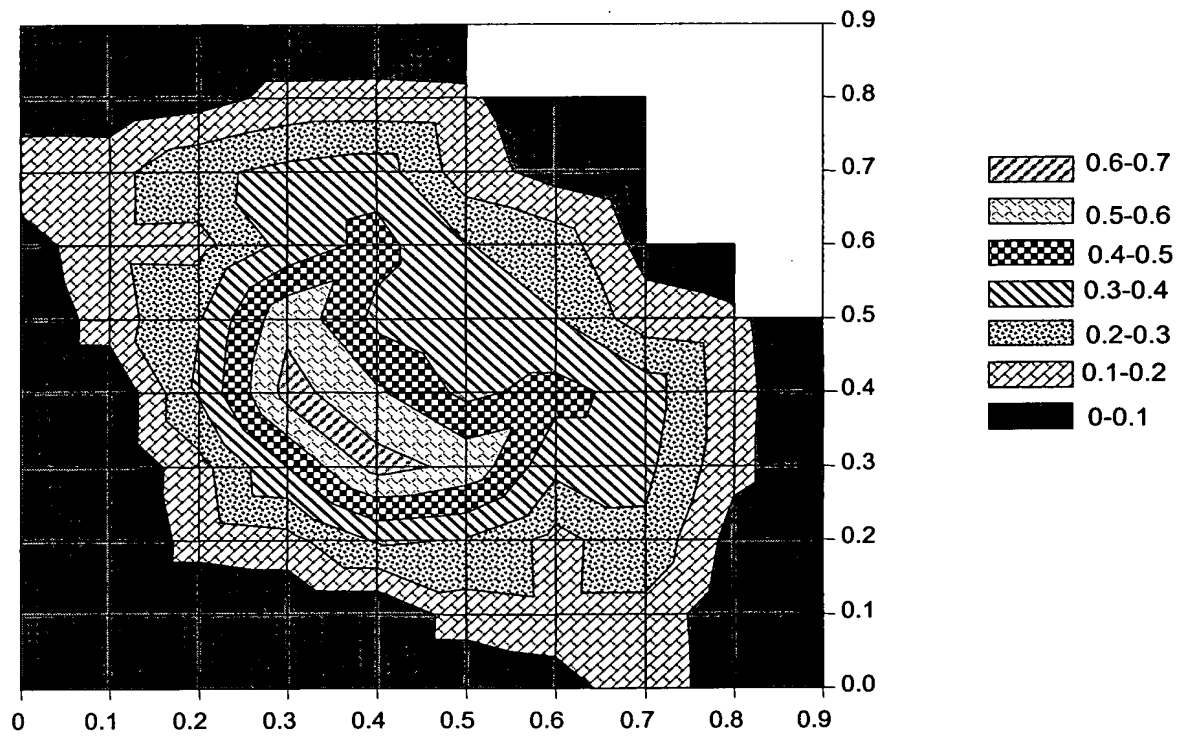


FIG. 57

total CD variation

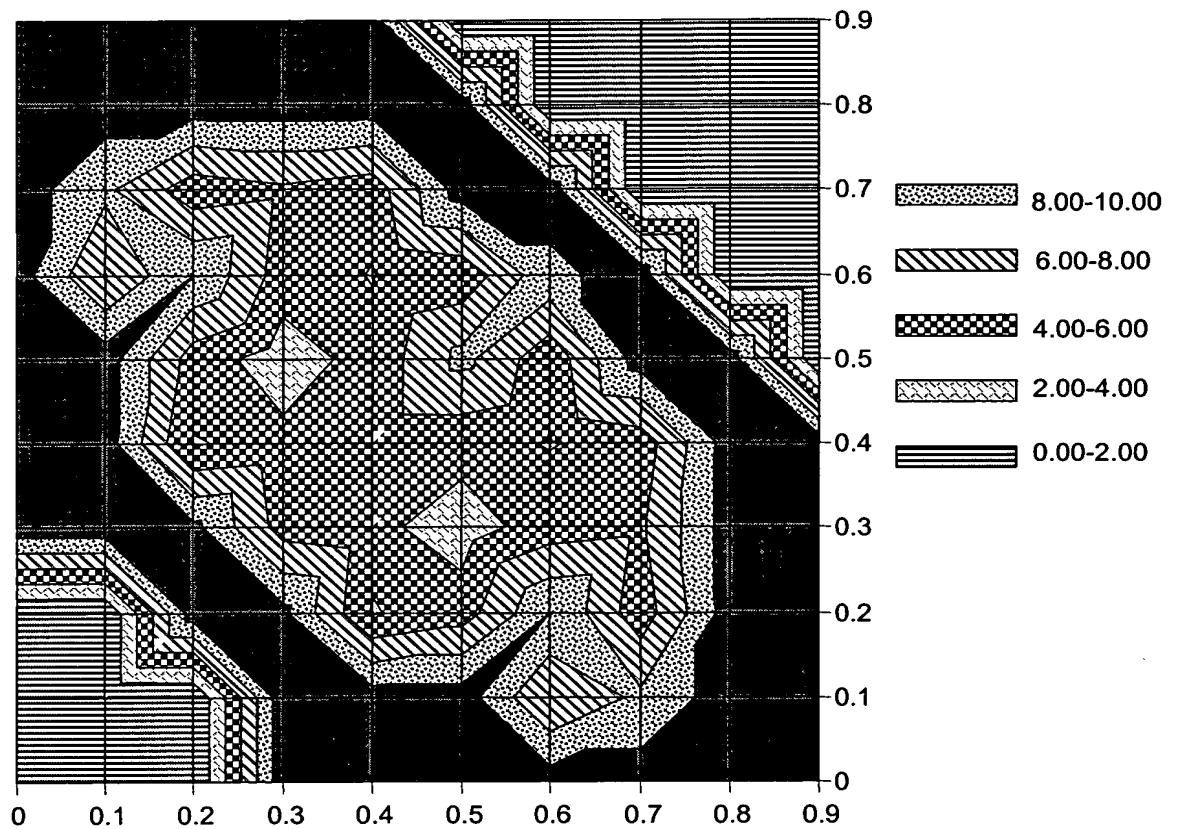
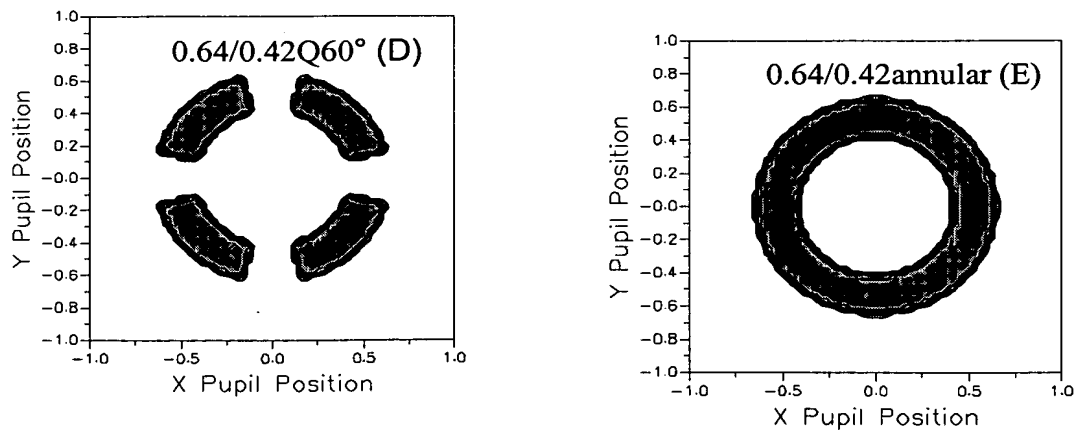
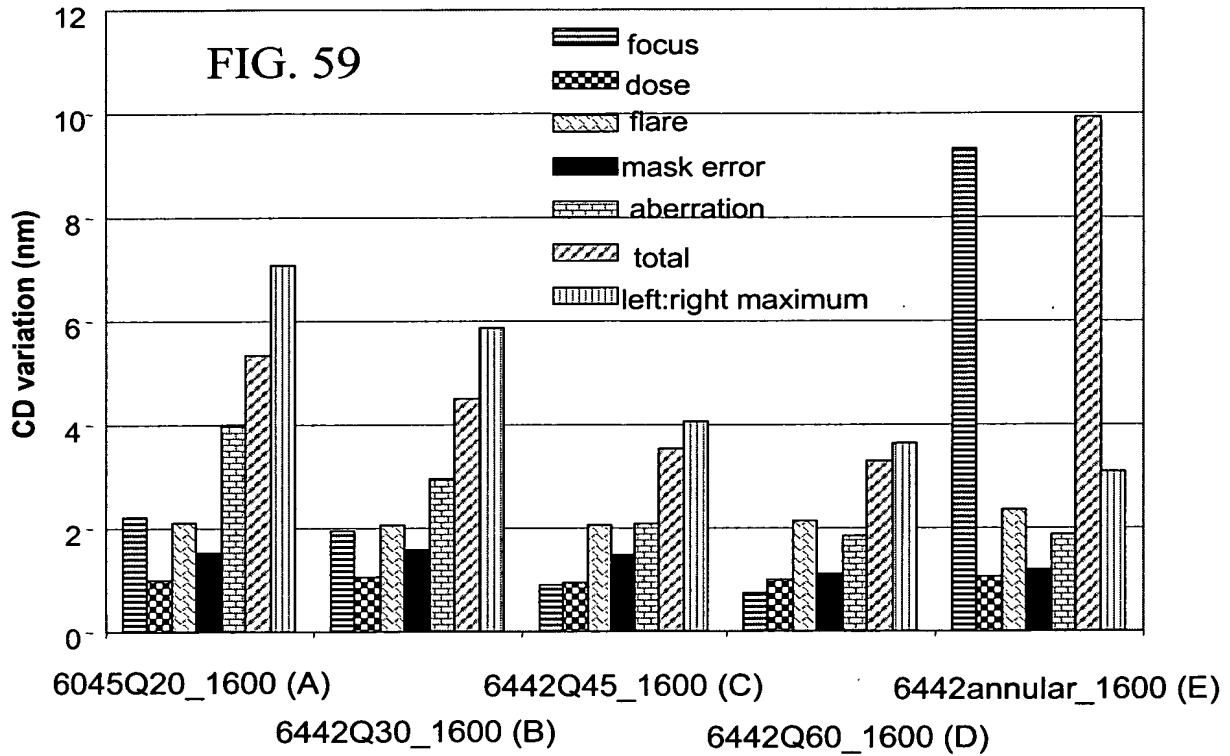
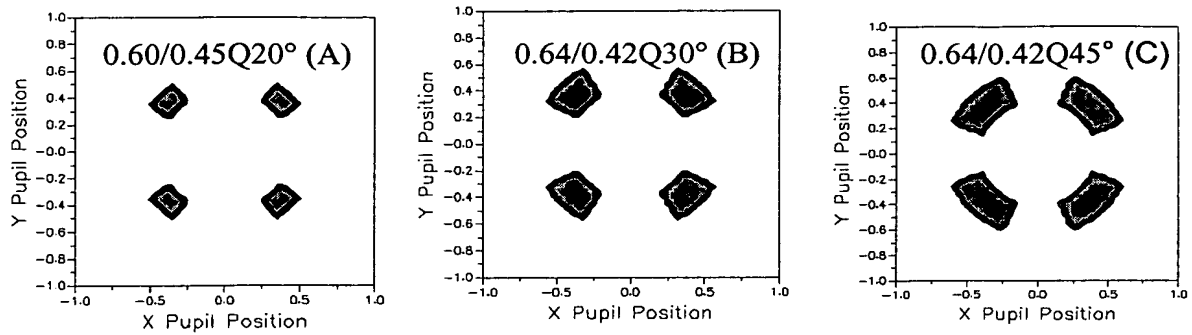


FIG. 58



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